



**WHISKEY ISLAND BACK BARRIER MARSH
CREATION PROJECT
STATE PROJECT NO. TE-50**

PROJECT COMPLETION REPORT

March, 2010



**Prepared for:
Coastal Protection and Restoration
Authority of Louisiana**



Prepared By:

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PROJECT COMPLETION REPORT

Table of Contents

1. Project Managers/Contracting Officer	Page 1
2. Location and Description of Projects as Approved for Construction by Task Force.....	Page 1
3. Final, As-Built Features, Boundaries and Resulting Acreage .	Page 1
4. Key Project Cost Elements.....	Page 2
5. Items of Work.....	Page 3
6. Construction and Construction Oversight	Page 4
7. Major Equipment Used	Page 4-5
8. Discuss Construction Sequences and Activities, Problems Encountered, Solutions to Problems, etc.	Page 5-11
9. Construction Change Orders and Field Changes	Page 12-13
10. Pipeline and Other Utility Crossings.....	Page 14
11. Safety and Accidents.....	Page 14
12. Additional Comments Pertaining to Construction, Completed Projects, Lessons Learned, etc.....	Page 14-15
13. Significant Construction Dates	Page 15

APPENDICES:

- A Change Orders and Field Orders
- B Preconstruction Conference Report
- C As-built Volume Calculations
- D As-built Drawings

PROJECT COMPLETION REPORT

PROJECT NAME: Whiskey Island Back Barrier Marsh Creation Project
CWPPRA/STATE PROJECT NO. TE-50

Report Date: December 2009 **By:** T. Baker Smith, Inc.

1. Project Managers/Contracting Officer:

OCPR Construction Project Manager	Daniel Dearmond, P.E.	Telephone	985-449-5103
OCPR Project Manager	Brad Miller	Telephone	225-342-4122
Federal Agency Project Manager	Brad Crawford (EPA)	Telephone	214-665-7255
Construction Administrator/Inspection	Philip Chauvin, Jr. (TBS)	Telephone	985-868-1050

2. Location and Description of Projects as Approved for Construction by Task Force.

The Whiskey Island Marsh Back Barrier Marsh Creation Project (TE-50) is located on the Isles Dernieres barrier island chain in Terrebonne Parish, Louisiana. The site of work associated with the base and alternate bid is located on the east end of Whiskey Island. The borrow area for the project is located in Ship Shoal Block 43 and Block 67. The total bid quantity of hydraulic dredging for marsh fill is 2,300,000 C.Y. (in-place) and 225,000 C.Y. for Dune Fill.

The project consisted of a Base Bid and Additive Alternate No. 1. The Base Bid included all work associated with construction of the proposed marsh platform on the bay side of Whiskey Island. Additive Alternate No. 1 included all work associated with construction of a dune feature on the gulf side of Whiskey Island and installation of sand fencing and seeding.

The purpose of the project is to restore and nourish the shoreline on the east end of Whiskey Island and create a marsh platform on the bay side using dredged sediment from nearshore sand and sediment sources. The marsh creation platform will aid in bird habitat for coastal shore birds and the dune feature will aid in erosion protection on the gulf face of Whiskey Island. The project is sponsored by the United States Environmental Protection Agency (EPA) and the Coastal Protection and Restoration Authority of Louisiana (CPRA).

3. Final, As-Built Features, Boundaries and Resulting Acreage (use attachments if necessary).

The project was constructed as described above. For additional information see attached Appendix C, Pre and Post Construction Plan View and Appendix D, As-Built Drawings.

This project created approx. 319 acres of marsh platform, 4,967 L.F. of primary dikes, 11,800 L.F. of secondary dikes and nourished approximately 95 acres of beach / island area. The total quantity of material placed on the island was computed to be approx. 2,300,000 CYs of marsh fill and 236,784 CYs of dune fill based on the final as-built surveys. As part of the marsh platform, two tidal ponds and associated tidal creeks were pre-dredged in order to accelerate settlement and formation of an inter tidal estuary. Two opening in the primary dike were designed and during construction, a third opening was added on the west end of the project to aid in dewatering of the new marsh platform.

4. Key Project Cost Elements**

	CWPPRA Project Report Estimates Data	Cost Incurred as of December 27, 2010 **
Construction	\$27,245,123.00	\$23,496,199.00
E & D	\$2,735,428.00	\$1,560,552.00
Land rights	\$19,461.00	\$491.00
O & M and Monitoring	\$414,071.00	\$11,468.00
Total	\$30,414,083.00	\$25,117,352.00

**Cost Incurred does not include Federal Sponsor Administrative costs.

5. Items of Work

Schedule of Items										
Item No.	Work	Est. Quantity*	Unit	Estimated Unit Price	Estimated Amount	Bid Quant.	Bid Unit Price	Bid Amount	As-Built Quant.	As-Built Amount
Base Bid										
1	Mobilization and Demobilization	1	LS	\$2,500,000.00	\$2,500,000.00	1	\$2,750,000.00	\$2,750,000.00	1	\$2,750,000.00
2	Pre- & Post-Construction Surveys	1	LS	\$110,000.00	\$110,000.00	1	\$275,000.00	\$275,000.00	1	\$275,000.00
3	Hydraulic Dredging (In place)(Marsh Fill)	2,300,000	CY	\$5.20	\$11,960,000.00	2,300,000	\$7.05	\$16,215,000.00	2,300,000	\$16,215,000.00
4a.	Primary Containment Dikes (20' Crest)	5,000	LF	\$100.00	\$500,000.00	5,000	\$70.00	\$350,000.00	4,967	\$347,690.00
4b.	Primary Containment Dikes (20' Crest)	12,000	LF	\$31.00	\$372,000.00	12,000	\$30.00	\$360,000.00	11,800	\$354,000.00
5	Creek & Pond Excavation	49,000	CY	\$5.00	\$245,000.00	49,000	\$5.00	\$245,000.00	46,267	\$231,335.00
6	Settlement Plates	8	EA	\$2,500.00	\$200,00.00	8	\$3,500.00	\$28,000.00	8	\$28,000.00
11	Timber Dock Removal (Change Order No. 1)	1	LS	\$0.00	0	0	\$48,237.20	\$0.00	1	\$48,237.20
CPRA Estimated Base Bid Amount:					\$15,607,000.00	Original Base Bid Amount:		\$20,223,000.00		\$20,249,262.20
7	Pre- & Post-Construction Surveys	1	LS	\$40,000.00	\$40,000.00	1	\$25,000.00	25000	1	\$25,000.00
8	Hydraulic Dredging (In Place)(Dune Fill)	225,000	CY	\$8.90	2,002,500.00	225000	\$11.50	2587500	236,784	\$2,723,016.00
9	Sand Fencing	13,000	LF	\$11.00	\$143,000.00	13000	\$15.50	\$201,500.00	13,000	\$201,500.00
10	Seeding	95	AC	\$700.00	\$66,500.00	95	\$600.00	\$57,000.00	95	\$57,000.00
CPRA Estimated Additive Alternate Bid Amount:					\$2,252,000.00	Additive Alternate Bid Amount:		\$2,871,000.00	\$3,006,516.00	
CPRA Estimated Total Bid Amount					\$17,859,000.00	Total Bid Amount		\$23,094,000.00	Total As Built Amount	\$23,255,778.20

* - The As-Built Quantity indicated for Item No. 5 in the table is the volume approved for final payment. The actual As-Built Quantity for Hydraulic Dredging (In-place) was 1,001,274 C.Y. based on the Contractor's As-Built Survey.

6. Construction and Construction Oversight

Prime Construction Contractor	Weeks Marine, Inc.
Subcontractor – Survey	HydroTerra Technologies, LLC
Subcontractor – Sand Fencing and Seeding	Erosion Control Services, Inc.
Original Construction Contract	\$23,094,000.00
Change Orders	\$ 161,778.20
Final Construction Contract	\$23,255,778.20

Construction Oversight Contractor: T. Baker Smith, Inc.

Construction Oversight Amount: \$281,547.40

7. Major Equipment Used

- 1 Ea – Tug Boat – M/V “J. C Love”
- 1 Ea – Tug Boat – M/V “Richard B.”
- 1 Ea – Tug Boat – M/V “Delta Doe”
- 1 Ea – Tug Boat – M/V “Delta Clipper”
- 1 Ea – Tug Boat - M/V “Delta Fox”
- 1 Ea – Tug Boat - M/V “Delta Sparrow”
- 1 Ea – Tug Boat - M/V “Candace”
- 1 Ea – Tug Boat - M/V “Elle Marie”
- 1 Ea – Tug Boat - M/V “Candace”
- 1 Ea – Tug Boat - M/V “L. Marie”
- 1 Ea – Tug Boat - M/V “Babin”
- 1 Ea - Survey Vessel – M/V “Sabine”
- 1 Ea – Crew Boat – M/V “Cheyenne”
- 1 Ea – Crew Boat – M/V “Te-Brud”
- 2 Ea – Anchor Barges
- 4 Ea – Miscellaneous Supply / Deck Barges
- 1 Ea - 30” Cutter head Dredge “E.W. Ellefsen”
- 1 Ea - Weeks 542 Bucket Dredge
- 1 Ea – Weeks 646 Bucket Dredge
- 1 Ea - BT-213 Quarters Barge
- 1 Ea - Cat 966 Loader
- 2 Ea - Cat D6R LGP Dozers

1 Ea – Crane Barge 229
1 Ea – Crane Barge 108
4 Ea - CAT 325A Marsh Buggy Excavators
1 Ea. - 24' Survey Barge (HydroTerra Technologies)
1 Ea - 21' Aluminum Workboat (Inspector's vessel)
1 Ea – Air Boat
2 Ea – Honda Foreman All Terrain Vehicle
2 Ea – Kubota All Terrain Vehicle

8. Discuss Construction Sequences and Activities, Problems Encountered, Solutions to Problems, etc.

- November 12, 2008: Mandatory Pre-Bid Meeting
- November 23, 2008: Addendum No. (1) Issued.
- November 25, 2009: Addendum No. (2) Issued.
- November 26, 2008: Addendum No. 3 issued.
- December 2, 2009: Addendum No. 4 issued.
- December 9, 2009: (2) Bids received, Weeks Marine, Inc. low responsive bidder.
- February 11, 2009: Notice to Proceed issued to Weeks Marine, Inc.
- February 24, Sub-Contractor, HydroTerra Technologies, LLC begin Pre-Construction surveys.
- March 2, 2009: All parties met at T. Baker Smith Office for Pre-Construction meeting.
- March 9, 2009: Sub-Contractor, HydroTerra Technologies, LLC continuing pre-construction surveys and layout of dikes.
- March 12, 2009: Weeks Marine Dredge Barge 542 arrives onsite and starts excavating access channel and floatation channel
- March 16, 2009: Weeks Marine Dredge Barge 542 continues to excavate floatation channel and construction containment dikes and excavation on tidal creeks.
- March 23, 2009: Weeks Marine submitted Marsh Fill Before Dredge Survey data.
- March 24, 2009: Weeks Marine requests contract modification for new access point on western end of project.
- March 25, 2009: Weeks Marine Dredge Barge 542 continues to excavate floatation channel and construct containment dikes and excavation on tidal creeks and ponds.

- March 31, 2009: OCPR/TBS onsite meeting with Louisiana Department of Wildlife and Fisheries to discuss nesting birds and trans-located brown pelicans.
- April 2, 2009: Weeks Marine Dredge Barge 542 continues to excavate floatation channel and construct containment dikes and excavation on tidal creeks and ponds.
- April 9, 2009: Weeks Marine Dredge Barge 542 continues to excavate floatation channel and construct containment dikes and excavation on tidal creeks and ponds. Presently working on third lift of primary containment dike.
- April 16, 2009: Weeks Marine Dredge Barge 542 continues to excavate floatation channel and construct containment dikes and excavation on tidal creeks and ponds. Presently working on first lift for secondary containment dike.
- April 20, 2009: Weeks Marine submitted Dune Fill before dredge survey data.
- April 23, 2009: OCPR/TBS site visit.
- April 23, 2009: Field Order No. 1 issued
- April 23, 2009: Field Order No. 2 issued
- April 24, 2009: Weeks Marine Dredge Barge 542 relocated to excavate access channel on west end of project.
- April 27, 2009: Weeks Marine Dredge Barge 542 completed excavation on access channel on west end of project and relocated to continue excavation of floatation channels and construction of containment dikes.
- April 28, 2009: Contractor requested to submit pricing to remove existing timber structure in Whiskey Pass.
- April 29, 2009: Weeks Marine Crane Barge 108 and (2) CAT 325A long reach marsh buggy excavators arrived onsite today.
- May 3, 2009: Weeks Marine Crane Barge 108 set (2) settlement plates, numbers 2 & 3. Excavation of floatation channels and construction of containment dikes ongoing.
- May 7, 2009: Weeks Marine notified T. Baker Smith of the presents of a pod of Atlantic Bottlenose Dolphins swimming in and out of the marsh fill area.
- May 11, 2009: Executed Field Order Nos. 1 and 2 returned to Weeks Marine.
- May 15, 2009: Weeks Marine Dredge Barge 542 set (4) spill boxes on east end of project between stations 20+30 and 23+70.

- May 19, 2009: Magnetometer survey submittal and pre-construction surveys of dune feature forwarded to OCPR.
- May 22, 2009: Weeks Marine Crane Barge set (2) settlement plates, numbers 7 & 8. Excavation of floatation channels and construction of containment dikes ongoing.
- May 23, 2009: Weeks Marine Crane Barge set (2) settlement plates, numbers 9 & 10. Excavation of floatation channels and construction of containment dikes ongoing.
- May 27, 2009: Dredge pipe started arriving onsite.
- May 28, 2009: Weeks Marine Dredge Barge 542 completing construction of containment dike system. Once temporary access point was closed, it became apparent that five (5) Atlantic Bottlenose Dolphins were trapped inside of the containment area. Weeks Marine field personnel notified T. Baker Smith and OCPR staff of the situation.
- May 28, 2009: Weeks Marine submitted Before Dredge Survey data.
- May 29, 2009: Notice to Mariners issued to United States Coast Guard.
- May 29, 2009: Weeks Marine Dredge “E.W. Ellefsen” and Quarters Barge BT213 arrived onsite today along with support equipment and submerged and shore pipeline materials.
- May 31, 2009: Dredge “E.W. Ellefsen” crew started installed submerged pipeline.
- June 2, 2009: Bi-Weekly Progress meeting no. 1 held onsite today.
- June 2, 2009: (2) additional marsh buggy excavators arrived onsite today.
- June 4, 2009: Federal agencies contacted and action plan agreed on to release trapped dolphins from containment area.
- June 6, 2009: Weeks Marine directed to breach secondary containment in northwest corner and breach made. NMFS and DNR personnel onsite for observation.
- June 10, 2009: No dolphins observed in disposal area and NMFS and DNR personnel authorized WMI to close breach in northwest corner containment dike. Installation of submerged and onshore pipeline ongoing.
- June 14, 2009: Weeks Marine Dredge “E.W. Ellefsen” towed onto location of disposal area, south end of Cut #2.
- June 16, 2009: Weeks Marine Dredge “E.W. Ellefsen” completed installation discharge piping, excavation of dredge material started at 7:00 am, cutter head digging to a depth of 23.5
- June 18, 2009: Bi-Weekly Progress meeting no. 2 held onsite today.

- June 23, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 303,322 CY of dredge spoils in the last 6 day period. Dredged materials presently being placed in marsh fill area.
- June 26, 2009: Weeks Marine submitted cost proposal to remove timber structure in Whiskey Pass for consideration.
- June 30, 2009: Bi-Weekly Progress meeting no. 3 held onsite today.
- June 30, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 275,102 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in marsh fill area.
- July 3, 2009: Weeks Marine issued direction to avoid restricted area between the surf zone and the bay. Nesting brown pelicans are being trans-located by Wildlife and Fisheries.
- July 7, 2009: Weeks Marine Cost Proposal to remove timber structure in Whiskey Pass forwarded to OCPR.
- July 7, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 218,444 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in marsh fill area.
- July 10, 2009: Weeks Marine Dredge Barge 542 and Crew Boat – M/V “Te-Brud” demobilized project.
- July 14, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 305,327 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in marsh fill area.
- July 16, 2009: Bi-Weekly Progress meeting no. 4 held onsite today.
- July 21, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 321,644 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in marsh fill area.
- July 28, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 264,305 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in marsh fill area.
- July 29, 2009: Bi-Weekly Progress meeting no. 5 held onsite today.
- July 30, 2009: Weeks Marine Dredge “E.W. Ellefsen” relocated to Whiskey Pass due to rough seas.
- July 31, 2009: Weeks Marine Dredge “E.W. Ellefsen” returned to borrow area for dredging operations.
- August 4, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 213,028 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in marsh fill area.
- August 8, 2009: Weeks Marine Dredge “E.W. Ellefsen” experienced mechanical problems with cutter bearing and ladder wire.

- August 8, 2009: Stake out of dune feature started today
- August 11, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 211,609 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in marsh fill area.
- August 11, 2009: Weeks Marine Dredge “E.W. Ellefsen” relocated to Whiskey Pass due to mechanical problems associated with the under water pump thrust bearing
- August 12, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 213,028 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in marsh fill area.
- August 12, 2009: Weeks Marine Dredge “E.W. Ellefsen” located in Whiskey Pass due to mechanical problems associated with the under water pump thrust bearing.
- August 12, 2009: Bi-Weekly Progress meeting no. 6 held onsite today.
- August 12, 2009: Centerline of Dune Feature staked out, final alignment of Dune Feature Alignment adjusted in the field.
- August 13, 2009: Weeks Marine Dredge “E.W. Ellefsen” located in Whiskey Pass due to mechanical problems associated with the under water pump thrust bearing.
- August 14, 2009: Weeks Marine Dredge “E.W. Ellefsen” located in Whiskey Pass due to mechanical problems associated with the under water pump thrust bearing.
- August 15, 2009: Weeks Marine Dredge “E.W. Ellefsen” returned to borrow area for dredging operations after repairs were completed on the under water pump thrust bearing.
- August 16, 2009: Weeks Marine Dredge “E.W. Ellefsen” continuing to experience problems associated with the thrust bearing on the under water pump.
- August 18, 2009: Weeks Marine Dredge “E.W. Ellefsen” down due to mechanical problems with the flange on the thrust bearing hub.
- August 18, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 98,063 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in marsh fill area.
- August 19, 2009: Weeks Marine Dredge “E.W. Ellefsen” down due to mechanical problems with the flange on the thrust bearing hub.
- August 21, 2009: Before Dredge surveys ongoing on dune feature section of project.
- August 23, 2009: Weeks Marine Dredge “E.W. Ellefsen” completed dredging operations for fill material being placed in marsh fill area, 30 day dewatering period to start as of this day. Cut volume place in marsh fill area 2,409,040 CYs.

- August 24, 2009: Weeks Marine Dredge “E.W. Ellefsen” located in Whiskey Pass due to mechanical problems associated with the under water pump thrust bearing.
- August 25, 2009: Weeks Marine Dredge “E.W. Ellefsen” located in Whiskey Pass due to mechanical problems associated with the under water pump thrust bearing.
- August 25, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 117,293 CY of dredge spoils in the last 7 day period. 89,515 CY of dredged materials placed in marsh fill area and 27,778 CY of dredged spoils place on dune feature.
- August 26, 2009: Weeks Marine Dredge “E.W. Ellefsen” located in Whiskey Pass due to mechanical problems associated with the under water pump thrust bearing.
- August 27, 2009: Weeks Marine Dredge “E.W. Ellefsen” returned to borrow area for dredging operations after repairs were completed on the under water pump thrust bearing.
- August 27, 2009: Bi-Weekly Progress meeting no. 7 held onsite today.
- August 27, 2009: Revised dune alignment drawings forwarded to Weeks Marine.
- September 1, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 108,204 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in dune feature area. Surveys of beach fill ongoing.
- September 8, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 90,065 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in dune feature area. Surveys of beach fill ongoing.
- September 9, 2009: Weeks Marine Dredge “E.W. Ellefsen” down due to mechanical problems associated with the under water pump thrust bearing.
- September 10, 2009: Weeks Marine Dredge “E.W. Ellefsen” located in Whiskey Pass due to mechanical problems associated with the under water pump repairs.
- September 10, 2009: Bi-Weekly Progress meeting no. 8 held onsite today.
- September 10, 2009: Sand fence materials onsite.
- September 11, 2009: Weeks Marine Dredge “E.W. Ellefsen” located in Whiskey Pass due to mechanical problems associated with the under water pump repairs and rough seas.
- September 12, 2009: Weeks Marine Dredge “E.W. Ellefsen” returned to borrow area for dredging operations after repairs were completed on the under water pump and rough seas dissipated.

- September 13, 2009: Weeks Marine Dredge “E.W. Ellefsen” down for short period of time due to rough seas.
- September 15, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 37,856 CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in dune feature area. Surveys of beach fill ongoing.
- September 15, 2009: Change Order No. 2 issued to Weeks Marine.
- September 21, 2009: Weeks Marine Dredge “E.W. Ellefsen” completed dredging activities, removal of submerged pipeline activities started today.
- September 21, 2009: Degrading of containment dikes started.
- September 22, 2009: Quarters Barge BT213 relocated to Caillou Boca to allow for load out of shore piping. Submerged pipeline removed and moored in Caillou Boca for preparation for demobilizing.
- September 22, 2009: Weeks Marine Dredge “E.W. Ellefsen” yielded approximately 26,250CY of dredge spoils in the last 7 day period. Dredged materials presently being placed in dune feature area. Surveys of beach fill ongoing.
- September 23, 2009: Sub-contractor Dupre Brothers Construction Company, Inc. onsite and removed existing timber structure in Whiskey Pass.
- September 23, 2009: Sub-contractor HydroTerra Technologies, LLC onsite to begin final survey of marsh fill area.
- September 24, 2009: Bi-Weekly Progress meeting no. 9 held onsite today.
- September 25, 2009: Sub-contractor HydroTerra Technologies, LLC completed final survey of borrow area.
- September 25, 2009: Weeks Marine continuing final dressing of dune feature.
- September 25, 2009: Executed Change Order No. 2 returned to Weeks Marine.,
- September 26, 2009: Sub-contractor HydroTerra Technologies, LLC completed final survey of marsh fill area.
- September 27, 2009: Sub-contractor HydroTerra Technologies, LLC started final surveys of dune feature.
- September 28, 2009: Sub-contractor Erosion Control onsite to start sand fence installation.
- September 29, 2009: Weeks Marine Dredge “E.W. Ellefsen” demobilized from site.

- September 30, 2009: Weeks Marine directed to degrade tide creek openings to elevation of new marsh platform in lieu of elevation shown on contract drawings. Weeks Marine also directed to excavate third tidal creek opening on western end of primary dike.
- October 3, 2009: Survey of dune feature complete.
- October 6, 2009: Sub-contractor Erosion Control started seeding installation, sand fence installation ongoing.
- October 8, 2009: Bi-Weekly Progress Meeting No. 10.
- October 8, 2009: Weeks Marine directed to degrade secondary containment dikes to elevation of new marsh platform and to leave primary dikes in place as constructed. The primary dikes are to remain in place to aid in preventing winter storm wave action from eroding new marsh platform. Weeks Marine also directed to degrade tidal openings to an elevation to match existing elevation of the new marsh platform. Weeks Marine also directed to add third tidal opening on western side of primary dike.
- October 8, 2009: Sub-contractor Erosion Control completed seeding and sand fence installation.
- October 20, 2009: Degrading of containment dikes complete.
- October 22, 2009: Final Inspection held. Final inspection held prior to final acceptance in order to take advantage of contractor equipment onsite.
- October 22, 2009: Weeks Marine Quarters Barge 213 demobilized from site.
- November 8, 2009: Contract time ends.
- November 20, 2009: Weeks Marine 646 Dredge Barge onsite to backfill west access channel.
- November 23, 2009: Weeks Marine 646 Dredge Barge completed backfill operations and demobilized site.
- November 24, 2009: Final Inspection completed by T. Baker Smith, Inc. and Louisiana Department of Natural Resources.
- December 3, 2009: Weeks Marine requests additional contract days due to adverse weather delays for month of November 2009.
- December 15, 2009: T. Baker Smith recommends final acceptance of project to OCPR.
- December 17, 2009: Change Order No. 3 issued to Weeks Marine for a decrease in contract value of \$81,959.00.
- December 30, 2009: Change Order No. 3 forwarded to OCPR for approval.

9. Construction Change Orders and Field Changes.

- Change Order No. 1 (August 26, 2009):

Bid Item No. 11, Removal of Existing Timber Structure, was added to the project scope. The timber structure was installed as part of a previous restoration project on the back side of the East end of Whiskey Island. Due to erosion and movement of Whiskey Island, the timber structures location put it inside of Whiskey Pass and the Gulf of Mexico. The timber structure, due to its location, was deemed a hazard to maritime activities and a liability to public safety.

ITEM NO.	ITEM	UNIT	ORIGINAL QUANTITY	UNIT COST	ORIGINAL BID AMOUNT	ADDITIONAL QUANTITY	ADDITIONAL AMOUNT	BID ITEM TOTAL \$ AMOUNT
11	Removal of Existing Timber Structure	LS	1	\$0.00	\$0.00	1	\$48,237.20	\$48,237.20
TOTAL:							\$48,237.20	

- Change Order No. 2 (September 15, 2009):

The quantity for Bid Item No. 8, Hydraulic Dredging (In Place) (Dune Fill) exceeded the original contract quantity by an estimated quantity of 17,000 cubic yards based on pre-construction survey data provided by the contractor. Due to erosion and northward movement of Whiskey Island, the alignment of the dune feature was revised and relocated to minimize the quantity increase necessary to construct dune feature.

ITEM NO.	ITEM	UNIT	ORIGINAL QUANTITY	UNIT COST	ORIGINAL BID AMOUNT	ADDITIONAL QUANTITY	ADDITIONAL AMOUNT	BID ITEM TOTAL \$ AMOUNT
8	Hydraulic Dredging (In Place)(Dune Fill)	CY	225,000	\$11.50	\$2,587,500.00	17,000	\$195,500.00	\$2,783,000.00
TOTAL:							\$195,500.00	

- Change Order No. 3 (December 17, 2009):

The contract quantities for Bid Item No. 4a, Primary Containment Dikes (20' Crest), Bid Item No. 4b, Secondary Containment Dikes (10' Crest), Bid Item No. 5, Creek & Pond Excavation and Bid Item No. 8 were under the contract quantity and the contract quantity required adjustment. In addition, the project extended past the allotted contract time by 15 days. The contractor was delayed in back filling the access channel on the west end of the project due to adverse weather conditions caused by Tropical Storm Ida. As a result, 15 calendar days were added to contract time.

ITEM NO.	ITEM	UNIT	ORIGINAL / REVISED QUANTITY	UNIT COST	ORIGINAL BID AMOUNT	ADDITIONAL QUANTITY	ADDITIONAL AMOUNT	BID ITEM TOTAL \$ AMOUNT
4a	Primary Containment Dikes (20' Crest)	LF	5,000	\$70.00	\$350,000	(33)	(\$2,310.00)	\$347,690.00
4b	Secondary Containment Dikes (10' Crest)	LF	12,000	\$30.00	\$360,000.00	(200)	(\$6,000.00)	\$354,000.00
5	Creek & Pond Excavation	CY	49,000	\$5.00	\$245,000.00	(2,733)	(\$13,665.00)	\$231,335.00
8	Hydraulic Dredging (In Place)(Dune Fill)	CY	242,000	\$11.50	\$2,783,500.00	(5,216)	(\$59,984.00)	\$2,723,016.00
TOTAL:							\$(81,959.00)	

- Field Order No. 1 (April 23, 2009):

The Owner has received a permit modification include an access channel from Caillou Bay to the primary containment dike. The approved access channel is oriented perpendicular to the primary containment dike, with the intersection of the center of the access channel and primary containment dike being located at Point No. 28 as shown on Plan Sheet 5 of 22 of the contract documents and on sheets 3 of 13 and 9 of 13 of the Department of the Army project permit.

- Field Order No. 2 (April 23, 2009):

On request by the contractor, the Owner has submitted and received a permit modification include allowable access and temporary channel from Caillou Bay on the West end of the project as shown and described on sheet 3 of 13 and 9 of 13 of the Department of the Army project permit.

10. Pipeline and Other Utility Crossings.

There were no pipeline or utility crossings associated with the Whiskey Island Marsh Creation Project.

11. Safety and Accidents.

There were no accidents reported during the Whiskey Island Back Barrier Marsh Restoration Project.

12. Additional Comments Pertaining to Construction, Completed Projects, Lessons Learned, etc.

- Entrapment of marine mammals: Five (5) Atlantic Bottle Nose Dolphins were trapped inside the marsh platform impoundment during construction of the containment dikes. Weeks Marine, Inc. field personnel notified T. Baker Smith, Inc. on May 8, 2009 that a pod of Atlantic Bottlenose Dolphins were

moving in and out of the proposed marsh platform area during the construction of the containment dikes. Louisiana Wildlife and Fisheries Refuge Division was contacted by T. Baker Smith for recommendations to stop the movement of the dolphin(s) in and out of the containment area. Visual inspections were done on a daily basis by both the contractor and project representative to track movement in and out of the fill area. On May 28, 2009, after visual inspection did not locate any dolphins inside the containment area, the containment dike access point was closed. The same day (5) dolphins were spotted trapped on the inside of the containment area. On June 4, 2009, federal agencies notified of the entrapment of the dolphins and an action plan was agreed to for release of entrapped dolphins. On June 5, 2009, NOAA personnel onsite to assess the situation. On June 6, 2009, Weeks Marine directed to breach the secondary containment dike on the west end of the project. On June 10, 2009, no dolphins were present and Weeks Marine directed to close the opening in the containment dike. The issue of marine mammals being trapped within containment areas on future projects is always a possibility due to the nature of said work.

- Construction of southern most containment dikes: Comments were received post construction that the containment dikes along the island on the bay side could be omitted and that the existing shoreline could have been used for the southern most containment. This comment is valid and the possibility of implementation could be used in future designs.

13. Significant Construction Dates: To be filled out by DNR Construction Project Manager or Contracting Officer for construction for Agency responsible for construction.

ACTION	Date
Bid Opening	December 9, 2008
Construction Contract	January 27, 2009
Preconstruction Conference	March 2, 2009
Notice to Proceed	February 11, 2009
Mobilization	March 12, 2009
Construction Start	March 12, 2009
Construction Completion	November 23, 2009
Final Acceptance	November 24, 2009

If different bids are taken, repeat this table to individually reflect each bid and attach tables.
Other significant Project Dates

	Date
Project Implementation closeout**	
Start of Preconstruction Monitoring***	
Preconstruction Aerial Photography Acquisition***	
Monitoring Plan Completion***	

** Final implementation closeout is made by either the DNR Project Manager or the Federal Agency Contracting Officer depending on which organization had lead role for construction of project.

*** To be completed by CPRA Project Manager.

Appendix A

- **Fully Executed Change Order No. 1**
- **Fully Executed Change Order No. 2**
- **Fully Executed Change Order No. 3**
- **Fully Executed Field Order No. 1**
- **Fully Executed Field Order No. 2**

CHANGE ORDER NO. ONE (1)**PROJECT:**

Whiskey Island Back Barrier Marsh Creation Project

DATE OF ISSUANCE:

August 26, 2009

OWNER:Office of Coastal Protection and Restoration
1440 Tiger Drive STE B
Thibodaux, LA 70301**OWNER'S PROJECT NO.**

TE-50

CONTRACTOR:Weeks Marine, Inc.
304 Gaille Drive
Covington, Louisiana 70433**ENGINEER:**T. Baker Smith, Inc.
412 S. Van Ave.
Houma, LA 70363**CONTRACT FOR:**

Whiskey Island Back Barrier Marsh Creation Project

ENGINEER'S PROJECT NO.

2009.0105

You are directed to make the following changes in the Contract Documents.**Description:**

Remove and dispose of existing timber structure located in Whiskey Pass. Timber Structure was installed under previous restoration project and is now located in Whiskey Pass and Gulf of Mexico. The location of the timber structure is a hazard to maritime activities and is a liability to public safety.

CHANGE IN CONTRACT PRICE:

Original Contract Price

\$ 23,094,000.00

Previous Change Orders

\$ 0.00

Contract Price Prior to This Change Order

\$ 23,094,000.00

Net Increase of this Change Order

\$ 48,237.20

Contract Price with all approved Change Orders

\$ 23,142,237.20

CHANGE IN CONTRACT TIME:

Original Contract Time

270 Calendar Days
days or date

Net Change from previous Change Orders

0 Calendar Days
days or date

Contract Time Prior to this Change Order

0 Calendar Days
days or date

Net Increase of this Change Order

0 Calendar Days
days or date

Contract Time with all approved Change Orders

270 Calendar Days
days or date**RECOMMENDED:**By: 

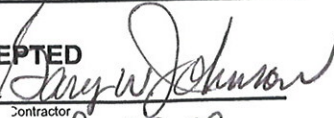
Engineer

Date: 8/27/09

APPROVED:By: 

OCPD

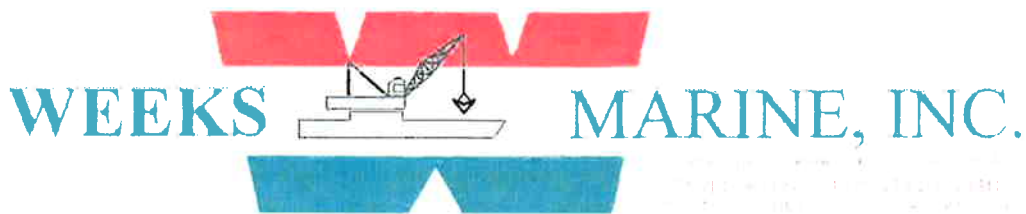
Date: 8/27/09

ACCEPTEDBy: 

Contractor

Date: 8-27-09

Owner Office of Coastal Protection and Restoration Engineer T. Baker Smith, Inc. RE: Whiskey Island Back Barrier March Creation Project TE-50	Change Order No. ONE (1) Date: August 26, 2009							
Description: Change Order No. One (1) is necessary add Item No. 11 to incorporate the removal of the existing timber structural located in Whiskey Pass.								
ITEM NO.	ITEM	UNIT	Bid Quantity	ORIGINAL Unit Price	amount	Revised Quantity	REVISED Unit Price	amount
11	Removal of Existing Timber Structure	LS	1	\$ -	\$ -	1	\$ 48,237.20	\$ 48,237.20
TOTALS				\$ -		\$ 48,237.20		
Additional Contract Days Requested		0	Revised	AMOUNT OF OVER RUN			\$48,237.20	



304 GAILLE DRIVE • COVINGTON, LA 70433 • Office (985) 875-2500 • Fax (985) 875-2578

T. Baker Smith, Inc.
412 South Van Avenue
Houma, Louisiana 70363

26 June 2009

Serial Letter No.: H-0010

Attention: Mr. Phillip P. Chauvin, Jr.
Construction Project Manager

Reference: File No. P 27241 UL, Purchase Order No. 3421942
Whiskey Island Back Barrier Marsh Creation Project (TE-50)
Terrebonne Parish, Louisiana

Subject: Request for Pricing to Remove Pile Structure East of Whiskey Island

Dear Mr. Chauvin:

Attached, please find the quote from the Weeks Marine, Inc. subcontractor, Dupre Brothers Construction Company, Inc. The prime contractor overhead and reasonable profit has been added to the subcontractor cost proposal. The proposal is submitted for your review and approval.

If you have any questions or require additional information, please contact me at (985) 875-2525 or crbalentine@weeksmarine.com.

Sincerely yours,
WEEKS MARINE, INC.

Charles R. Balentine
Office Engineer
Bucket, Hopper, & Hydraulic Groups

Enclosures

cc: Steve Chatry
Mike Ernst
Charles Granger
Gary Johnson
Correspondence File



DREDGING - MARINE CONTRACTORS
STEVEDORING - EQUIPMENT RENTALS
TOWING - HEAVY LIFT - SALVAGE

304 GAILLE DRIVE • COVINGTON, LA 70433 Office (985) 875-2500 Fax (985) 875-2572

COST PROPOSAL FOR REMOVAL OF PILE STRUCTURE

PROJECT NUMBER 1317919

WHISKEY ISLAND BACK BARRIER MARSH CREATION PROJECT (TE-50)

TERREBONNE PARISH, LOUISIANA

TOTAL SUBCONTRACTOR PROPOSAL		\$40,000.00
PRIME CONTRACTOR OVERHEAD	9.63%	<u>3,852.00</u>
SUBTOTAL		\$43,852.00
PRIME CONTRACTOR PROFIT	10.00%	<u>4,385.20</u>
TOTAL PROPOSAL		<u><u>\$48,237.20</u></u>



June 25, 2009

Weeks Marine, Inc.
304 Gaille Dr.
Covington, Louisiana 70433

Attn: Chuck Broussard

RE: Cost Estimate for:
Whiskey Island Back Barrier Marsh Creation Project (TE-50)
Removal of Pile Structure

Gentlemen:

As per your request, please accept this letter as our estimate for the above referenced project as per the following scope of work:

Scope of Work

Dupre Bros. Constr. Co., Inc. shall furnish labor, equipment, and transportation to remove a timber dock located on the east side of Whiskey Island based on the information provided by Weeks Marine, Inc. This estimate includes the removal of ± 80 linear feet of the timber pile structure consisting of ± 22 piles. All material will be removed from site, transported to our dock for proper disposal.

Lump Sum Cost	\$ 40,000.00
----------------------	---------------------

Qualifications

Please note the following clarifications and/or conditions to the above referenced project are to be considered as part of our formal Bid as submitted herein:

1. Our estimate does not include the cost of furnishing a Payment and Performance bond.
2. Should the actual structure differ from the information provided to us, we reserve the right to adjust our estimate.
3. All prices are subject to availability of equipment.

June 25, 2009
Weeks Marine, Inc.

4. Any additional work outside the Scope of Work shall be charged in accordance with published rates in our current Rate and Equipment Schedule. Materials and outside services and/or equipment processed through our office will be charged at our cost plus 15%.
5. Invoices shall be submitted at the end of each month for the percent of work completed to date, and also following completion of the project. All invoices shall be paid in full within 30 days.

Should you have any questions regarding our estimate, please do not hesitate to call on us at (985) 879-4440.

Sincerely yours,
DUPRE BROS. CONSTR. CO., INC.



Kevin Parfait, Project Engineer



T. BAKER SMITH, INC.
PROFESSIONAL CONSULTANTS SINCE 1913

412 South Van Avenue Houma, Louisiana 70363 • Post Office Box 2266 Houma, Louisiana 70361
Main Line: 985.868.1050 • Toll Free: 1.866.357.1050 • Fax: 985.868.5843 • Online: www.tbsmith.com

April 28, 2009

Mr. Gary Johnson
Weeks Marine, Inc.
304 Gaille Drive
Innwoods Business Park
Covington, LA 70433

Dear Mr. Johnson:

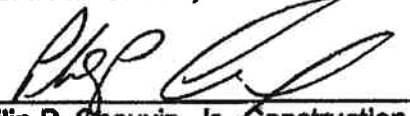
**RE: Request for Pricing
Whiskey Island Back Barrier Marsh Creation Project TE-50
Contract Administration**

As discussed onsite on April 22, 2009, the Department of Natural Resources/Office of Coastal Protection and Restoration would like to remove the pile structure located on the east side of the above referenced project. At this time, DNR/OCPR is requesting a cost proposal to remove the pile structure located in Whiskey Pass. Please submit pricing to this office to remove and properly dispose of the pile structure located in Whiskey Pass on the east side of the project site and as shown on the attached drawing.

If you have any additional questions or concerns, please do not hesitate to contact me at (985) 223-9228 or email me at philipc@tbsmith.com.

Sincerely yours,

T. BAKER SMITH, INC.


Philip P. Chauvin, Jr., Construction
Project Manager

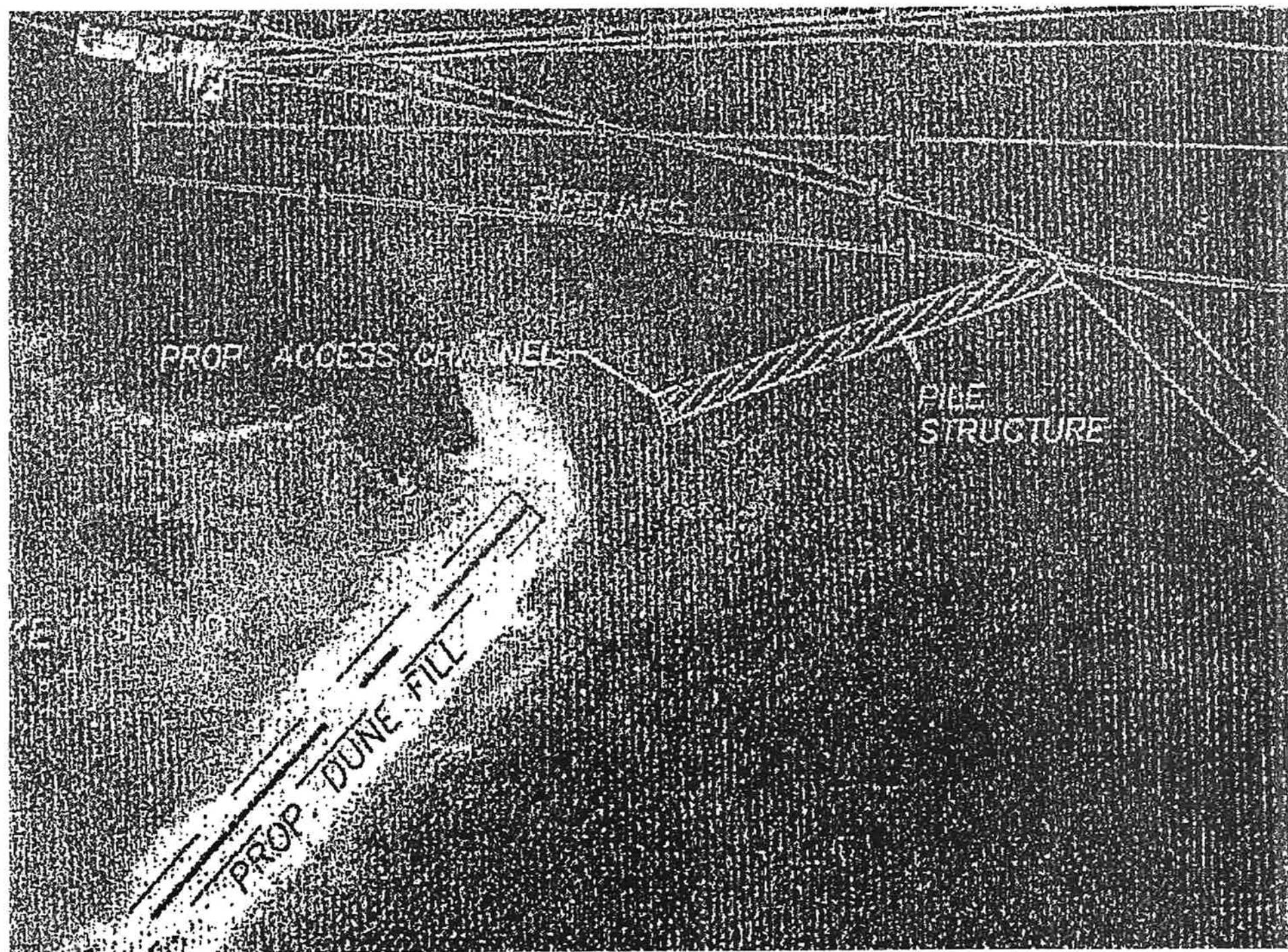
PPC/pdb

Enc.

Cc/Mr. Charles Granger✓

2009.010519

PLANNING DESIGN CONSTRUCTION MANAGEMENT OPERATIONS COMPLIANCE



CHANGE ORDER NO. TWO (2)

PROJECT:

Whiskey Island Back Barrier Marsh Creation Project

DATE OF ISSUANCE:

September 15, 2009

OWNER:Office of Coastal Protection and Restoration
1440 Tiger Drive STE B
Thibodaux, LA 70301**OWNER'S PROJECT NO.**

TE-50

CONTRACTOR:Weeks Marine, Inc.
304 Gaille Drive
Covington, Louisiana 70433**ENGINEER:**T. Baker Smith, Inc.
412 S. Van Ave.
Houma, LA 70363**CONTRACT FOR:**

Whiskey Island Back Barrier Marsh Creation Project

ENGINEER'S PROJECT NO.

2009.0105

You are directed to make the following changes in the Contract Documents.**Description:**

Change Order No. Two (2) is necessary revise the pay quantity of Item No. 11 to incorporate additional dredge material required due to realignment of dune feature. Realignment was required to due to changes to the physical features of Whiskey Island from design surveys and construction surveys.

CHANGE IN CONTRACT PRICE:

Original Contract Price

\$ 23,094,000.00

Previous Change Order No. 1

\$ 48,237.20

Contract Price Prior to This Change Order

\$ 23,142,237.20

Net Increase of this Change Order No. 2

\$ 195,500.00

Contract Price with all approved Change Orders

\$ 23,337,737.20

CHANGE IN CONTRACT TIME:

Original Contract Time

270 Calendar Days
days or date

Net Change from previous Change Orders

0 Calendar Days
days or date

Contract Time Prior to this Change Order

0 Calendar Days
days or date

Net Increase of this Change Order

0 Calendar Days
days or date

Contract Time with all approved Change Orders

270 Calendar Days
days or date**RECOMMENDED:**By: 

Engineer

Date: 9/24/09

APPROVED:By: 

OCPR

Date: 9/24/09

ACCEPTEDBy: 

Contractor

Date: 9-24-09

Owner Office of Coastal Protection and Restoration
 Engineer T. Baker Smith, Inc.
 RE: Whiskey Island Back Barrier March Creation Project
 TE-50

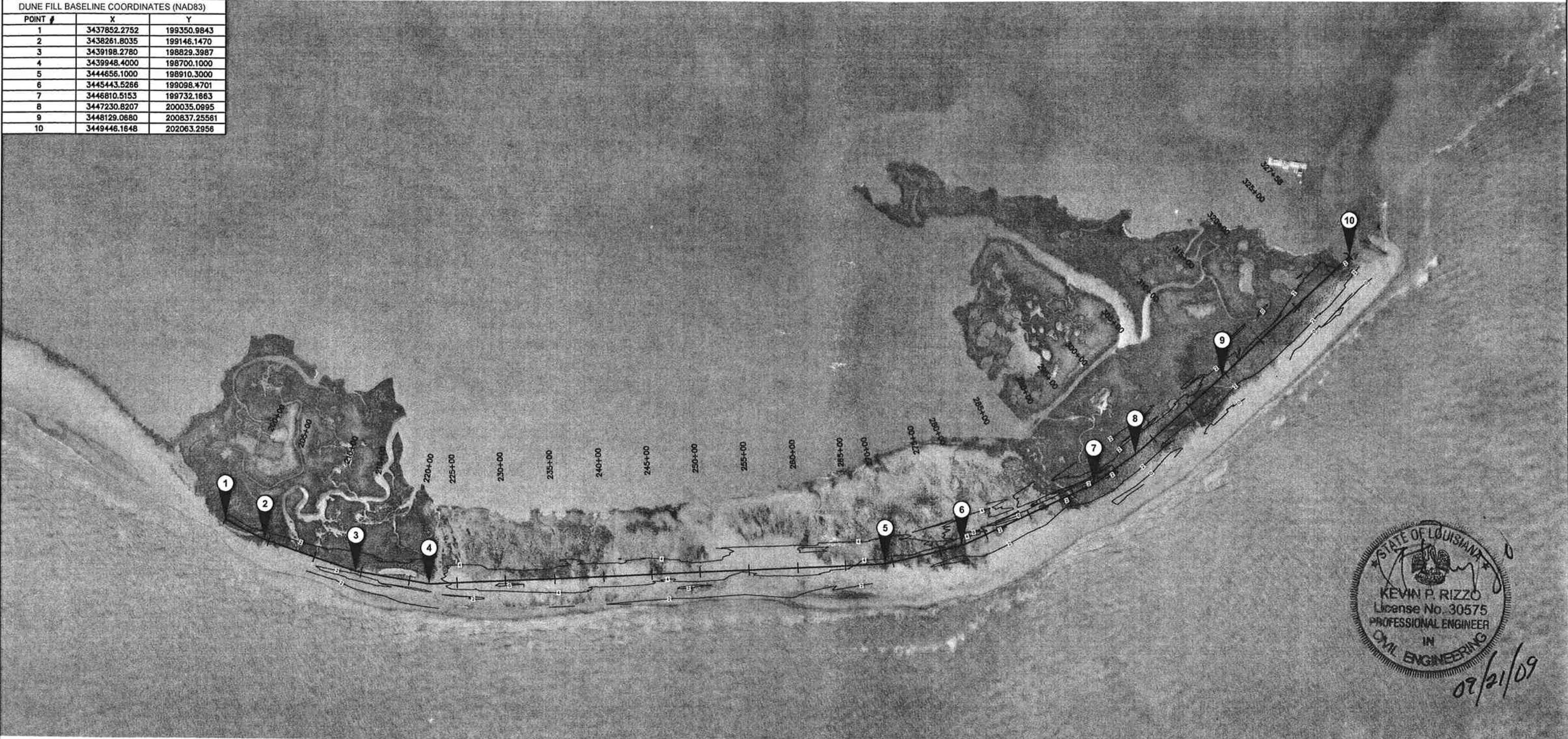
Change Order No. **Two (2)**
 Date: September 15, 2009

Description:

Change Order No. Two (2) is necessary revise the pay quantity of Item No. 11 to incorporate additional dredge material required due to realignment of dune feature. Realignment was required to due to changes to the physical features of Whiskey Island from design surveys and construction surveys.

ITEM NO.	ITEM	UNIT	Bid Quantity	ORIGINAL		Revised Quantity	REVISED	
				Unit Price	amount		Unit Price	amount
8	Hydraulic Dredging (In Place)(Dune Fill)	CY	225,000	\$ 11.50	\$ 2,587,500.00	242,000	\$ 11.50	\$ 2,783,000.00
TOTALS					\$ 2,587,500.00		\$	2,783,000.00
Additional Contract Days Requested			0	Revised	AMOUNT OF OVER RUN		\$195,500.00	

DUNE FILL BASELINE COORDINATES (NAD83)		
POINT #	X	Y
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2	3438261.8035	199146.1470
3	3439198.2780	198829.3987
4	3439948.4000	198700.1000
5	3444656.1000	198910.3000
6	3445443.5266	199098.4701
7	3446810.5153	199732.1863
8	3447230.8207	200035.0995
9	3448129.0680	200837.25561
10	3449446.1648	202063.2956



090105 BASE-Compore Dune.dwg

REV.	DATE	DESCRIPTION	BY
1	08/27/09	WORK ORDER NO. 2	KPR



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

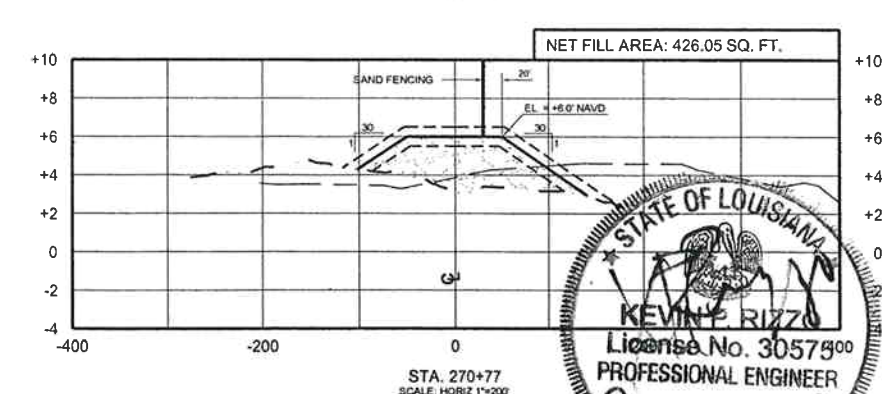
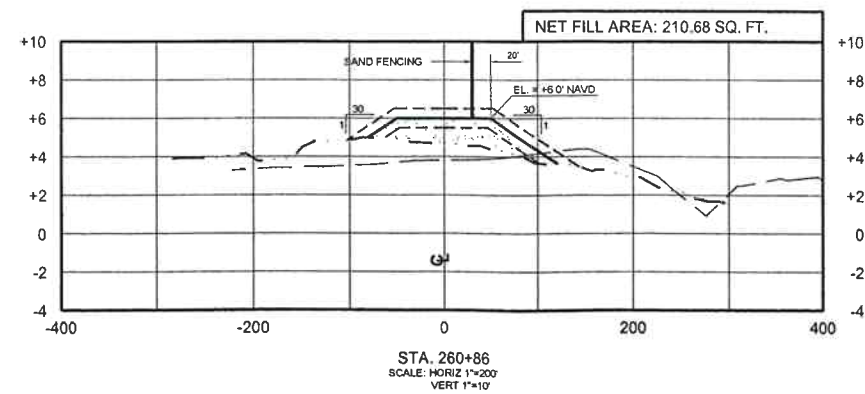
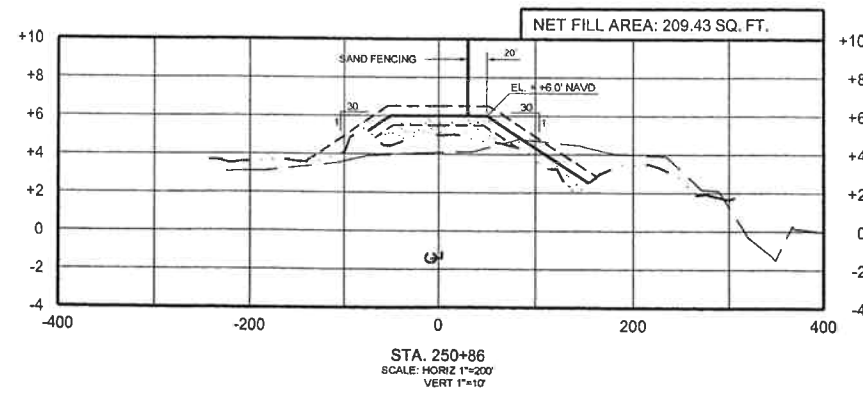
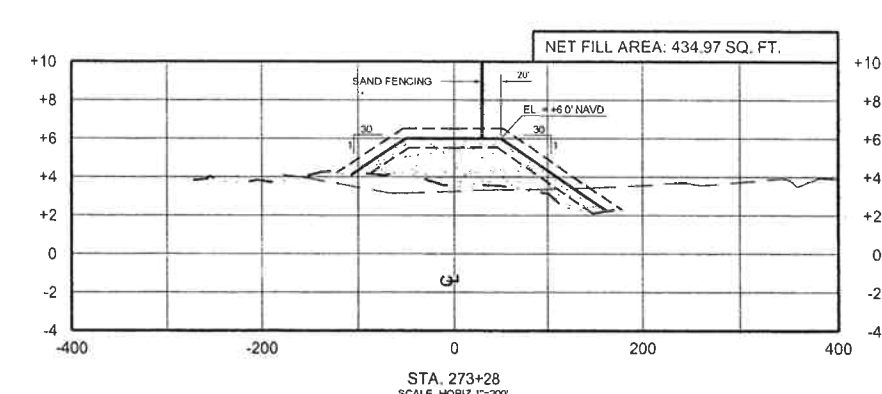
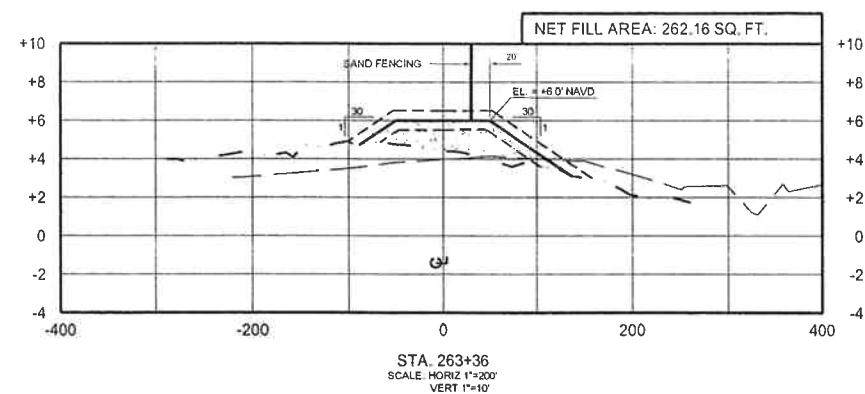
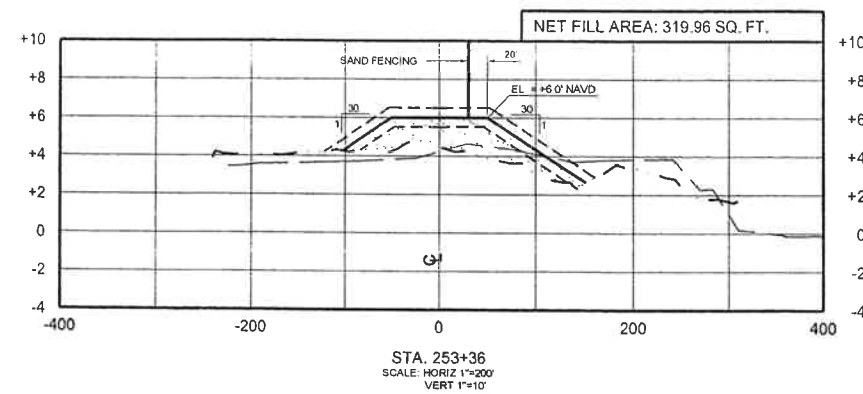
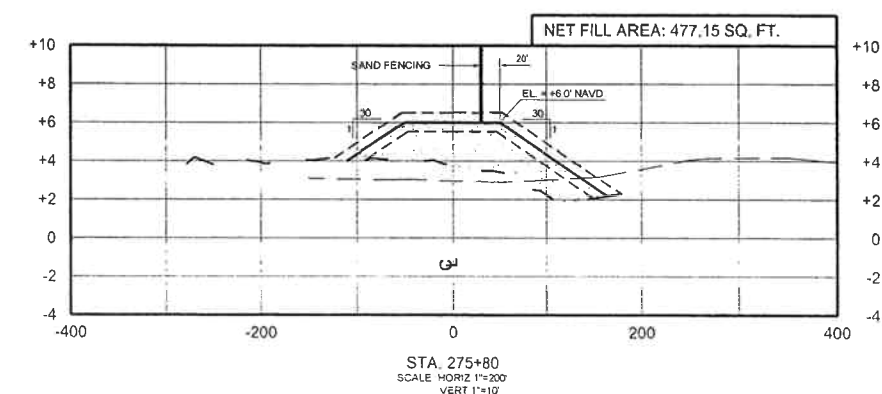
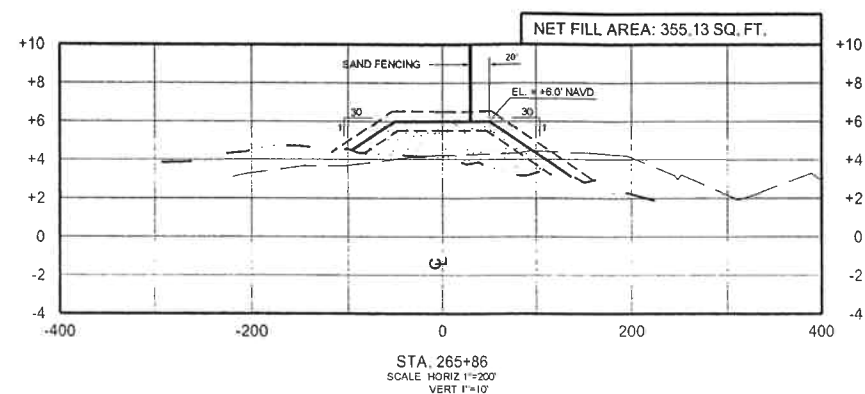
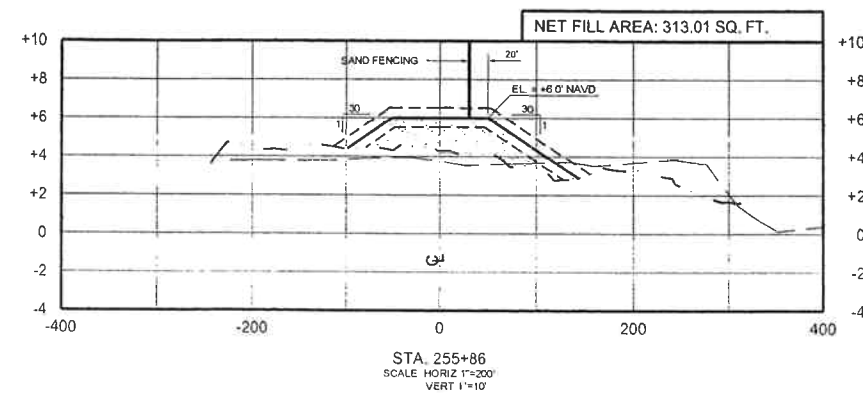
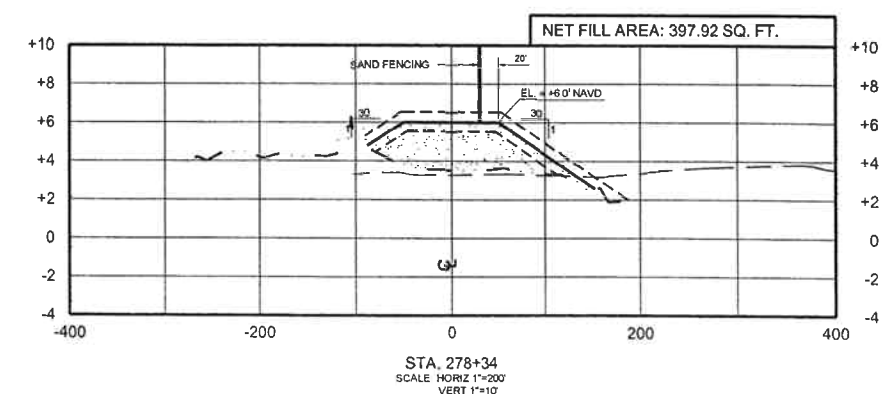
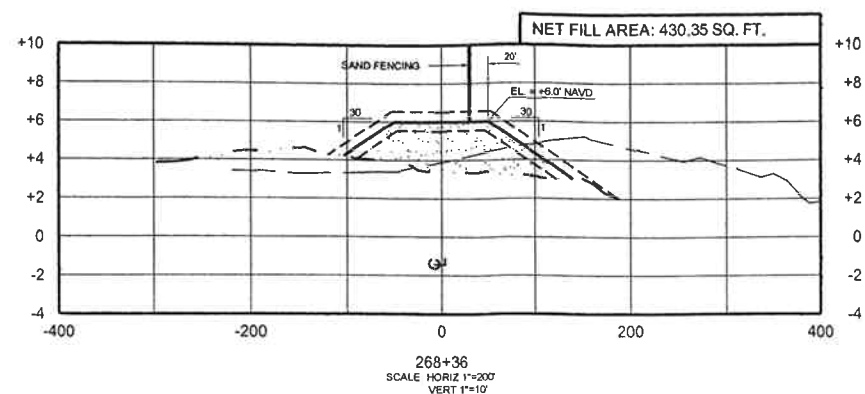
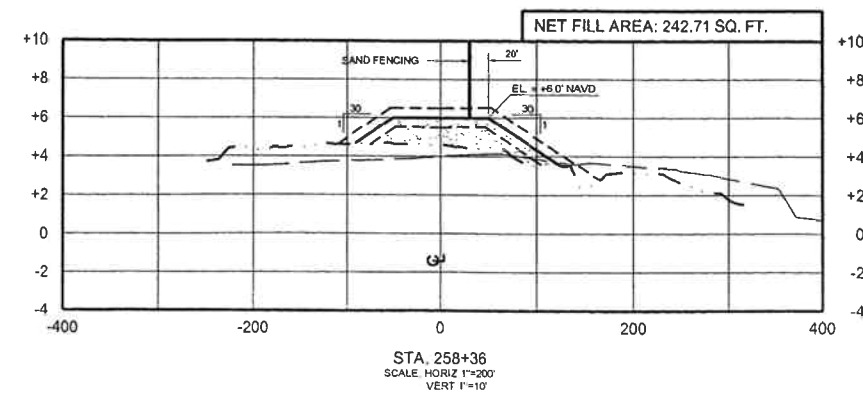
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

PROJECT LAYOUT

DATE: SEPTEMBER 2008

SHEET 1 OF 4



NOTES:

- 1) MAXIMUM TOLERANCE FOR DUNE FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE.
- 2) THE DUNE SHALL BE SEEDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.

LEGEND

--- EXISTING PROFILE - APRIL 2009 SURVEY
 --- EXISTING PROFILE - JUNE 2006 SURVEY
 --- DESIGN TEMPLATE
 --- CONSTRUCTION TOLERANCE
 [Pattern] DUNE FILL

REV.	DATE	DESCRIPTION	BY
1	08/27/09	WORK ORDER NO. 2	KPR



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
 COASTAL ENGINEERING DIVISION
 617 NORTH 3RD STREET
 BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
 MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

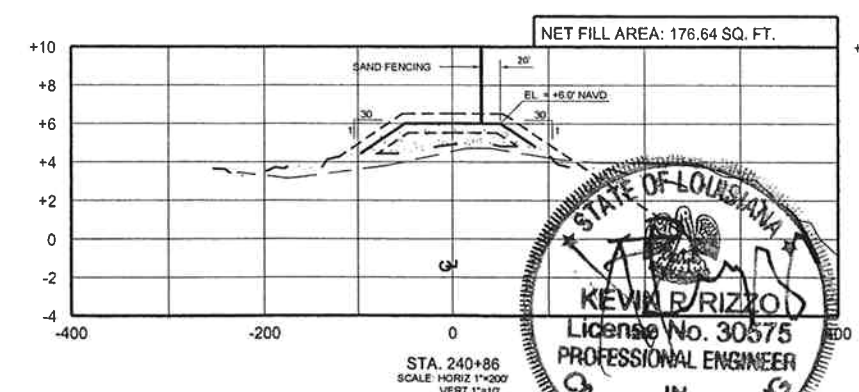
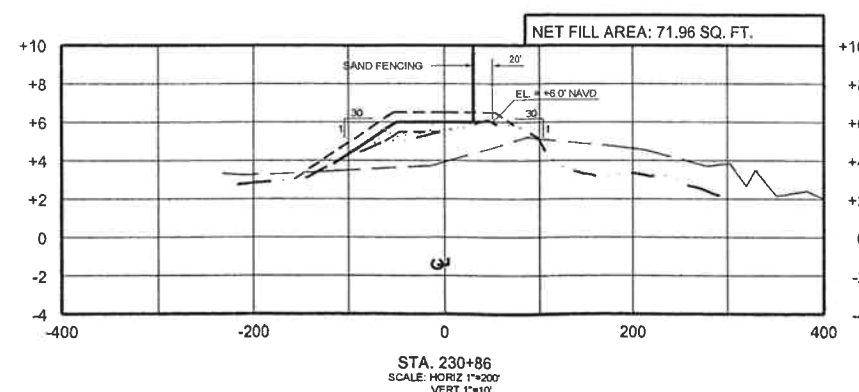
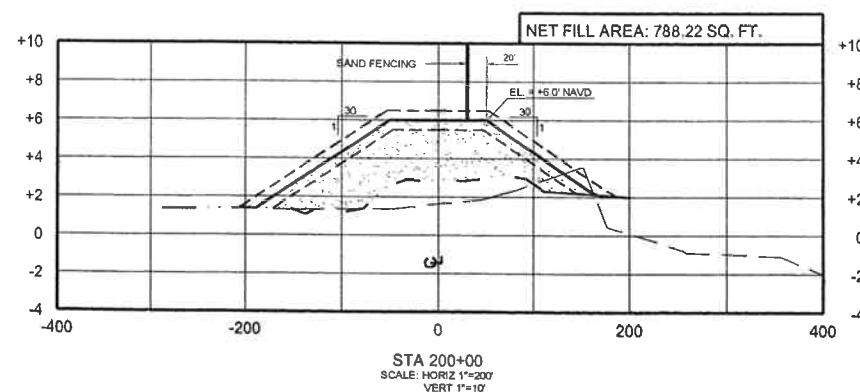
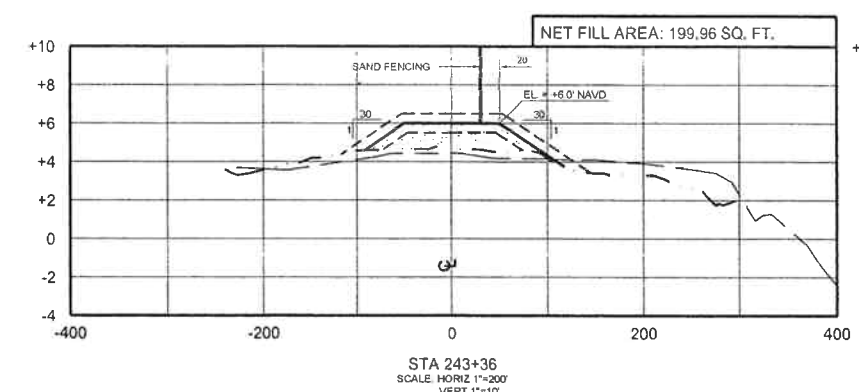
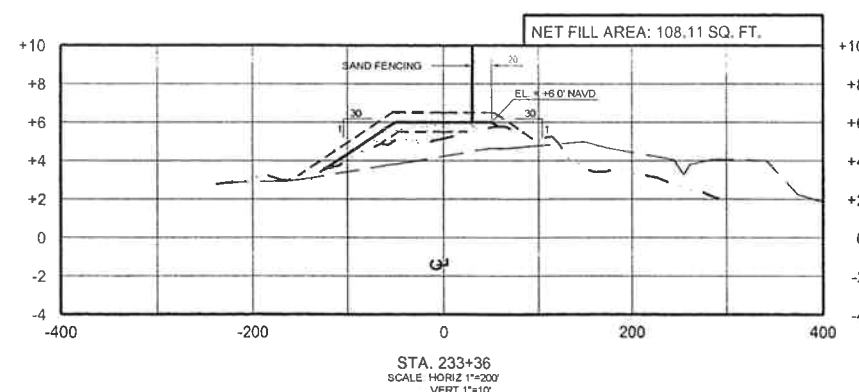
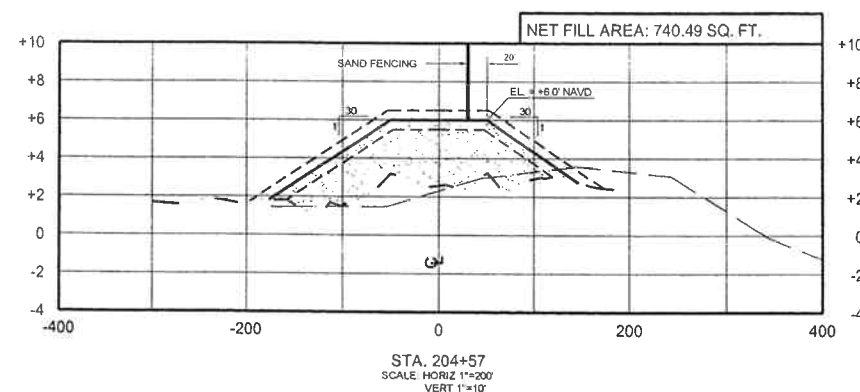
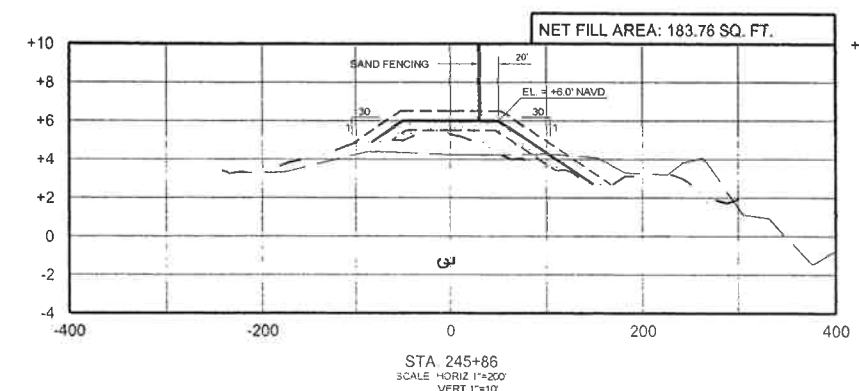
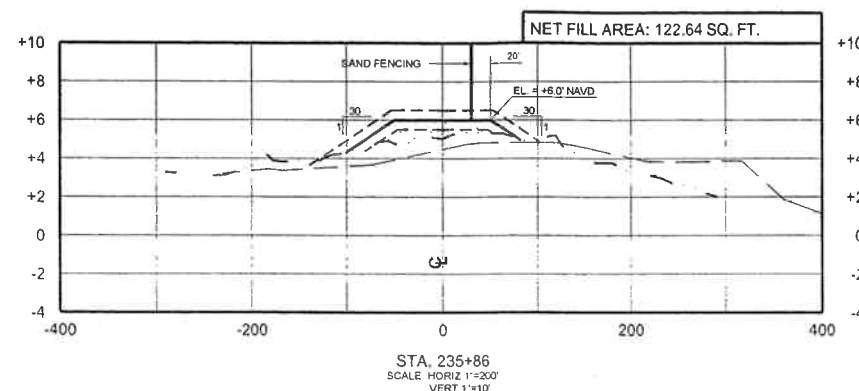
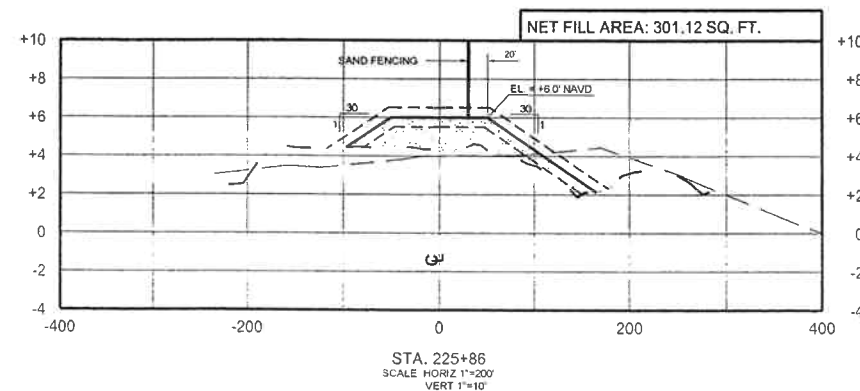
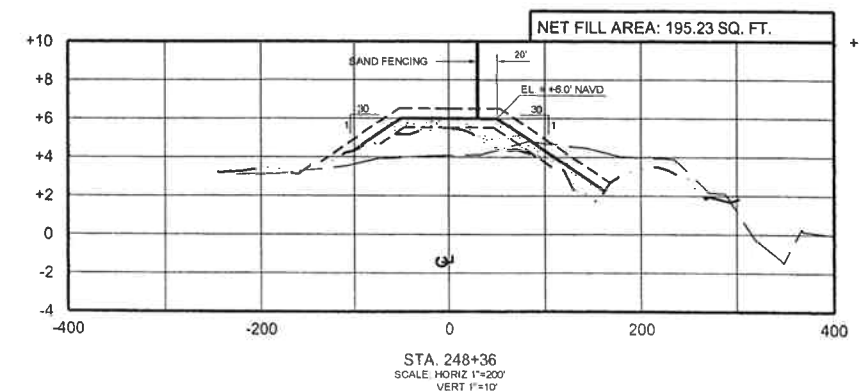
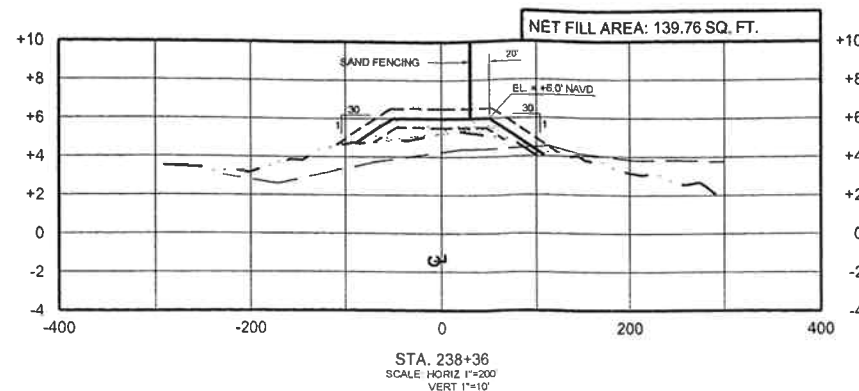
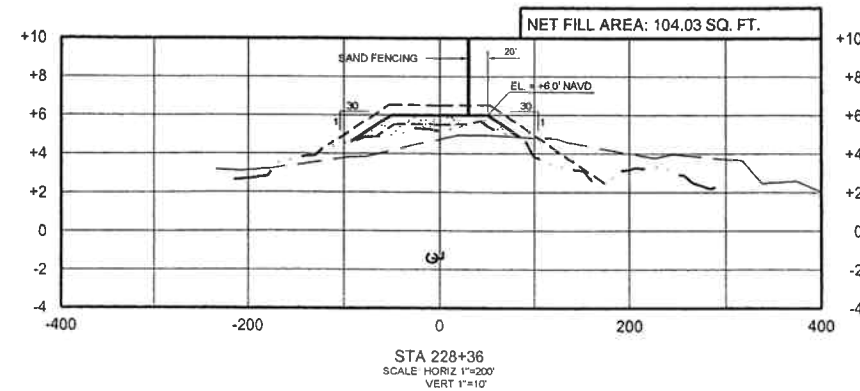
APPROVED BY: KPR

DUNE CROSS SECTIONS
 SHEET 2 OF 3
 (ADDITIVE ALTERNATE)

DATE: SEPTEMBER 2008

SHEET 3 OF 4





- NOTES:
- 1) MAXIMUM TOLERANCE FOR DUNE FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE.
 - 2) THE DUNE SHALL BE SEEDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.

LEGEND	
	EXISTING PROFILE - APRIL 2009 SURVEY
	EXISTING PROFILE - JUNE 2006 SURVEY
	DESIGN TEMPLATE
	CONSTRUCTION TOLERANCE
	DUNE FILL

REV.	DATE	DESCRIPTION	BY
1	08/27/09	WORK ORDER NO. 2	KPR



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

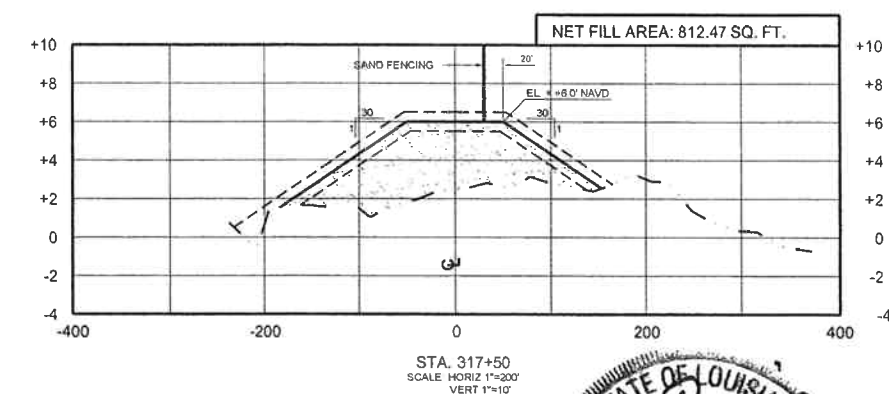
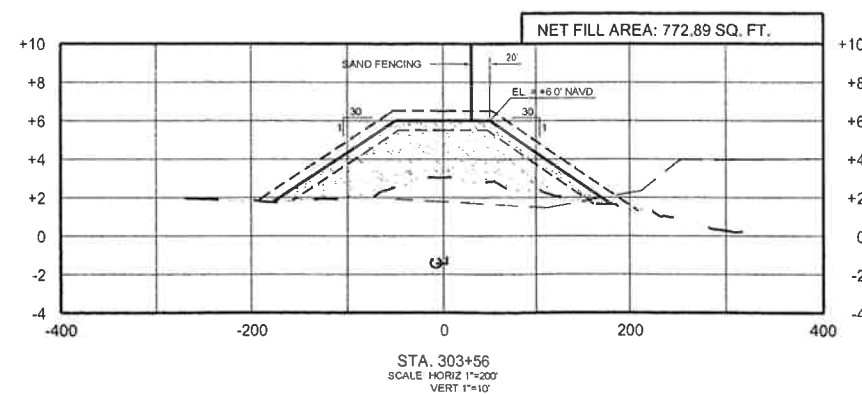
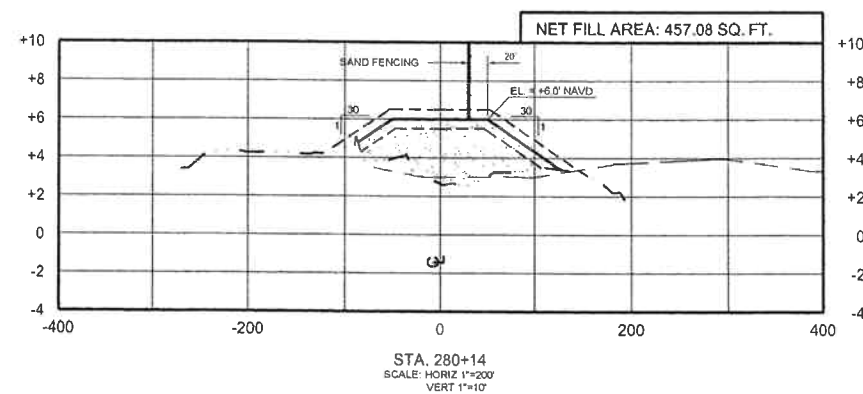
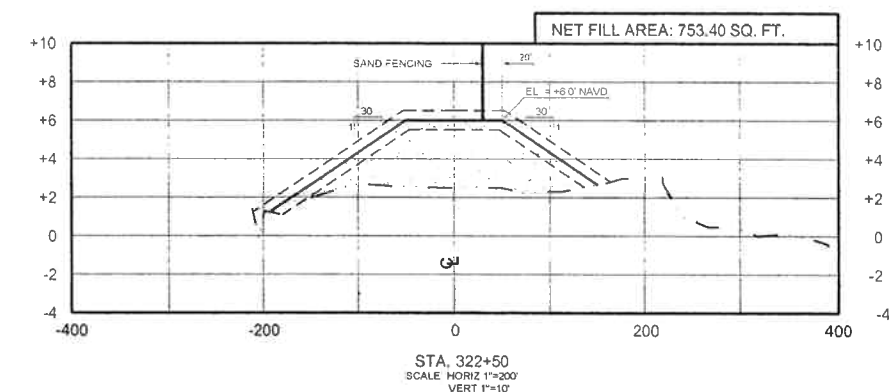
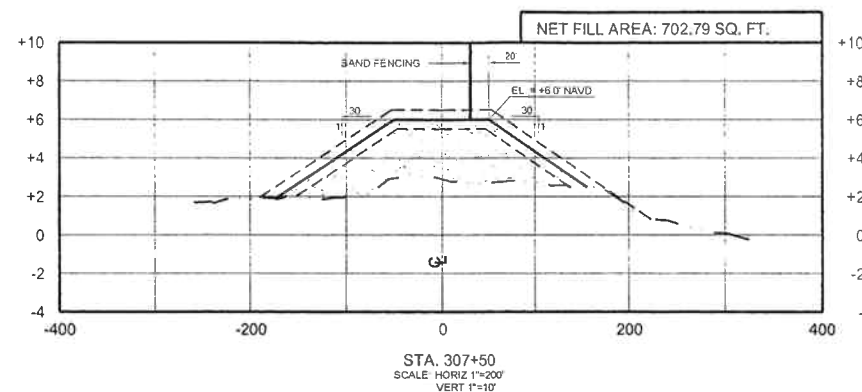
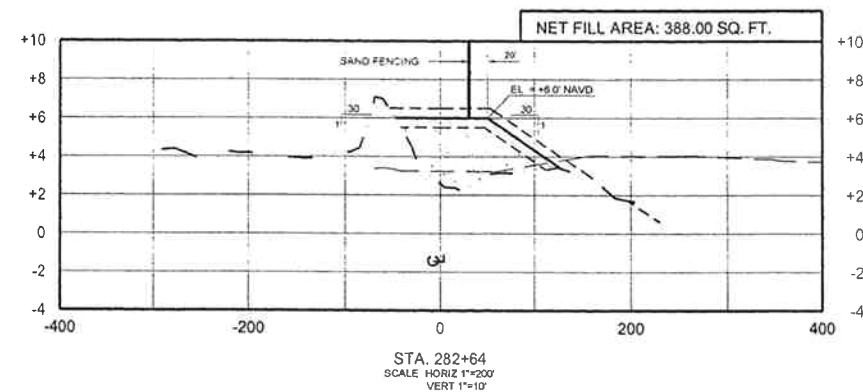
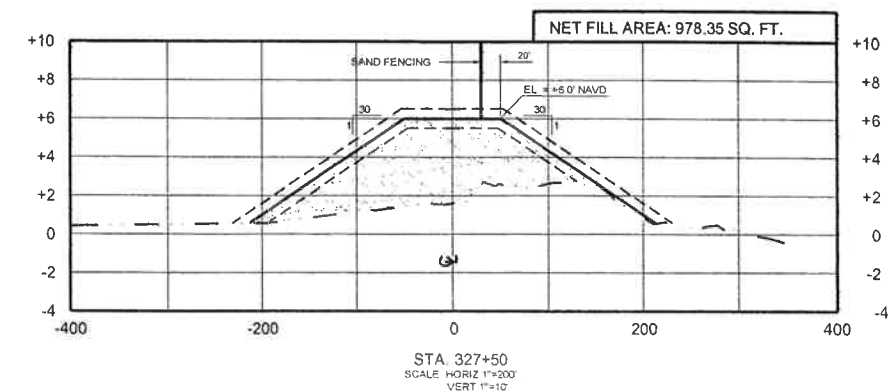
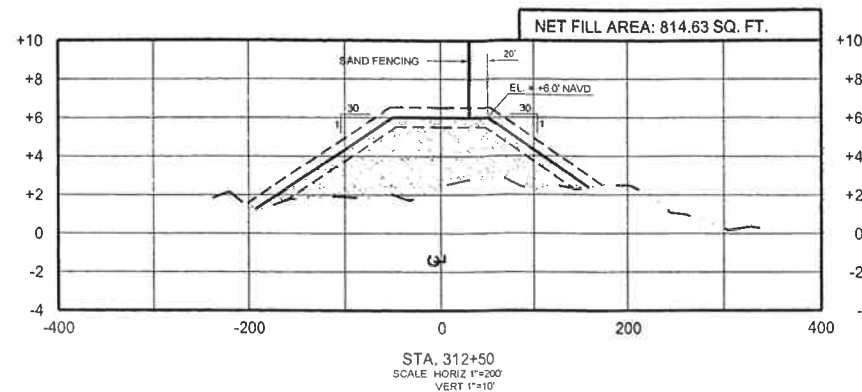
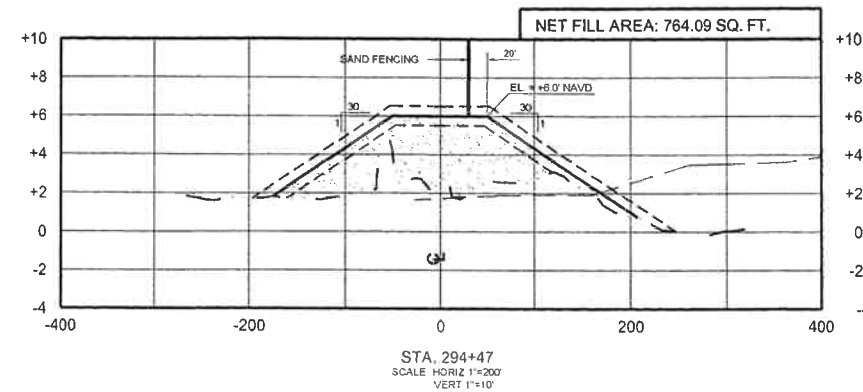
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

DUNE CROSS SECTIONS
SHEET 1 OF 3
(ADDITIVE ALTERNATE)

DATE: SEPTEMBER 2008

SHEET 2 OF 4



NOTES:

- 1) MAXIMUM TOLERANCE FOR DUNE FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE.
- 2) THE DUNE SHALL BE SEEDDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.

LEGEND	
	EXISTING PROFILE - APRIL 2009 SURVEY
	EXISTING PROFILE - JUNE 2006 SURVEY
	DESIGN TEMPLATE
	CONSTRUCTION TOLERANCE
	DUNE FILL

REV.	DATE	DESCRIPTION	BY
1	08/27/09	WORK ORDER NO. 2	KPR



LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

DUNE CROSS SECTIONS SHEET 3 OF 3 (ADDITIVE ALTERNATE)

DATE: SEPTEMBER 2008

SHEET 4 OF 4

CHANGE ORDER NO. THREE (3)

PROJECT:

Whiskey Island Back Barrier Marsh Creation Project

DATE OF ISSUANCE:

December 17, 2009

OWNER:

Office of Coastal Protection and Restoration
1440 Tiger Drive STE B
Thibodaux, LA 70301

OWNER'S PROJECT NO.

TE-50
1317919

CONTRACTOR:

Weeks Marine, Inc.
304 Gaille Drive
Covington, Louisiana 70433

ENGINEER:

T. Baker Smith, Inc.
412 S. Van Ave.
Houma, LA 70363

CONTRACT FOR:

Whiskey Island Back Barrier Marsh Creation Project

ENGINEER'S PROJECT NO.

2009.0105

You are directed to make the following changes in the Contract Documents.

Description:

Change Order No. Three (3) is necessary to balance contract quantities with in-place quantities. This change order is a deductive change order and also increases contract time due to adverse weather conditions caused by Tropical Depression Ida.

CHANGE IN CONTRACT PRICE:

Original Contract Price

\$ 23,094,000.00

Previous Change Orders No. 1 and 2

\$ 243,737.20

Contract Price Prior to This Change Order

\$ 23,337,737.20

Net Decrease of this Change Order No. 3

\$ (81,959.00)

Contract Price with all approved Change Orders

\$ 23,255,778.20

CHANGE IN CONTRACT TIME:

Original Contract Time

270 Calendar Days
days or date

Net Change from previous Change Orders

0 Calendar Days
days or date

Contract Time Prior to this Change Order

270 Calendar Days
days or date

Net Increase of this Change Order

15 Calendar Days
days or date

Contract Time with all approved Change Orders

285 Calendar Days
days or date

RECOMMENDED:

By: 

Engineer

Date: 12/30/09

APPROVED:

By: 

OCPR

Date: 1/4/10

ACCEPTED

By: 

Contractor

Date: 12-17-09

RECEIVED

JAN 05 2010



Owner Office of Coastal Protection and Restoration
 Engineer T. Baker Smith, Inc.
 RE: Whiskey Island Back Barrier March Creation Project
 TE-50

Change Order No. **Three (3)**
 Date: December 17, 2009

Description:

Change Order No. Three (3) is necessary to balance contract quantities with in-place quantities. This change order is a deductive change order and also increases contract time due to adverse weather conditions caused by Tropical Depression Ida.

Item No.	Item	Unit	Bid Quantities	ORIGINAL		Revised Quantity	REVISED	
				Unit Price	Amount		Unit Price	Amount
1	Mobilization and Demobilization	LS	1	\$ 2,750,000.00	\$ 2,750,000.00	1	\$ 2,750,000.00	\$ 2,750,000.00
2	Surveying	LS	1	\$ 275,000.00	\$ 275,000.00	1	\$ 275,000.00	\$ 275,000.00
3	Hydraulic Dredging (In Place Marsh Fill)	CY	2,300,000	\$ 7.05	\$ 16,215,000.00	2,300,000	\$ 7.05	\$ 16,215,000.00
4A	Primary Containment Dikes (20' Crest)	LF	5,000	\$ 70.00	\$ 350,000.00	4,967	\$ 70.00	\$ 347,690.00
4B	Secondary Containment Dikes (10' Crest)	LF	12,000	\$ 30.00	\$ 360,000.00	11,800	\$ 30.00	\$ 354,000.00
5	Creek & Pond Excavation	CY	49,000	\$ 5.00	\$ 245,000.00	46,267	\$ 5.00	\$ 231,335.00
6	Settlement Plates	EA	8	\$ 3,500.00	\$ 28,000.00	8	\$ 3,500.00	\$ 28,000.00
7	Surveying (Dune Fill)	LS	1	\$ 25,000.00	\$ 25,000.00	1	\$ 25,000.00	\$ 25,000.00
8	Hydraulic Dredging (In Place Dune Fill)	CY	242,000	\$ 11.50	\$ 2,783,000.00	236,784	\$ 11.50	\$ 2,723,016.00
9	Sand Fencing	LF	13,000	\$ 15.50	\$ 201,500.00	13,000	\$ 15.50	\$ 201,500.00
10	Seeding	ACRES	95	\$ 600.00	\$ 57,000.00	95	\$ 600.00	\$ 57,000.00
11	Dock Removal	LA	1	\$ 48,237.20	\$ 48,237.20	1	\$ 48,237.20	\$ 48,237.20
TOTALS					\$ 23,337,737.20			\$ 23,255,778.20
Additional Contract Days Requested 15 Revised AMOUNT OF UNDER RUN (\$81,959.00)								

RECEIVED

JAN 04 2010

CCD

FIELD ORDER NO. 1

PROJECT:

Whiskey Island Back Barrier Marsh Creation Project

DATE OF ISSUANCE:

April 23, 2009

OWNER:

Louisiana Department of Natural Resources
1440 Tiger Drive STE B
Thibodaux, LA 70301

OWNER'S PROJECT NO.

TE-50

CONTRACTOR:

Weeks Marine, Inc.
Post Office Box 4339
Houma, Louisiana 70361

ENGINEER:

T. Baker Smith, Inc.
412 South Van Ave.
Houma, LA 70363

CONTRACT FOR:

Whiskey Island Back Barrier Marsh Creation Project

ENGINEER'S PROJECT NO.

2009.0105

You are directed to make the following changes in the Contract Documents.

Description:

The Owner has received a permit modification include an access channel from Caillou Bay to the primary containment dike. The approved access channel is oriented perpendicular to the primary containment dike, with the intersection of the center of the access channel and primary containment dike being located at Point No. 28 as shown on Plan Sheet 5 of 22 of the contract documents and on sheets 3 of 13 and 9 of 13 of the attached permit.

Attachments:

1. Department of the Army Permit, permit No. MVN 2008-226-CY
2. Department of the Army, Permit Modification dated February 26, 2009
3. Department of Natural Resources, Office of Coastal Restoration and Management letter dated February 10, 2009

RECEIVED

MAY 06 2009

ccp

This Field Order does not constitute a change in Contract Time and/or Contract Cost.

RECOMMENDED:

By: [Signature]
Engineer
Date: 5/4/09

APPROVED:

By: [Signature]
LDNR
Date: 5/7/09

ACCEPTED:

By: [Signature]
Contractor
Date: 4-30-09

BOBBY JINDAL
GOVERNOR



SCOTT A. ANGELLE
SECRETARY

State of Louisiana
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL RESTORATION AND MANAGEMENT

February 10, 2009

Kristi Cantu
Louisiana Dept. Natural Resources
Coastal Engineering Division
P. O. Box 44027
Baton Rouge, LA 70804

RE: **C20070623**, Coastal Zone Consistency Modification
USEPA/LDWF
Direct Federal Action
Whiskey Island Back Barrier Island Marsh Creation CWPPRA Project (TE-50); modification
for an access channel, **Terrebonne Parish, Louisiana.**

Dear Ms. Cantu:

The above referenced project modification has been reviewed for consistency with the approved Louisiana Coastal Resource Program (LCRP) as required by Section 307 of the Coastal Zone Management Act of 1972, as amended. The modification, as proposed in the application, is consistent with the LCRP.

If you have any questions concerning this determination please contact Brian Marcks of the Consistency Section at (225) 342-7949.

Sincerely yours,

A handwritten signature in dark ink, appearing to read "Jim Rives".
Jim Rives
Administrator

JR/JH/bgm

cc: Tim Landers, USEPA
Brandt Savoie, LDWF
Pete Serio, COE-NOD
Rod Piercé, CMD FI
James Miller, Terrebonne Parish



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P. O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

Operations Division
Central Evaluation Section

FEB 26 2009

SUBJECT: MVN 2008-226-CY

Louisiana Department of Wildlife and Fisheries
2000 Quail Drive,
Baton Rouge, Louisiana 70808

Gentlemen:

Additional plans enclosed in sheets 2, 3, 6, 9 and 13 furnished with your application dated February 9, 2009, requesting an additional 300 feet of access channel and a 1.0-foot increase in channel depth from -5.0 to -6.0 feet NAVD 88 are approved and will be included in your plans for the work authorized by the Secretary of the Army in permit dated June 5, 2008, granting approval to dredge to construct a temporary access channel and excavate and deposit material to reconstruct the dune complex, install containment dikes and a sand fence, and build a marsh platform with tidal creeks and ponds, all for the purpose of implementing the Whiskey Island Back Barrier Marsh Creation Project (CWPPRA TE-50) located in the Isles Dernieres Island chain, Whiskey Island, approximately 17 miles southwesterly from Cocodrie, Louisiana, in Terrebonne Parish. These drawings along with the remaining set of drawings have been re-dated to January 27, 2009, and, therefore, will supersede all drawings of your original permit.

The conditions to which the work is made subject, remain in full force and effect.

A copy of the first page of this permit approval letter must be conspicuously displayed at the project site. Also, you must keep a copy of this signed letter, with attached drawings, at the project site until the work is completed.

We ask that you utilize the following link to complete and submit a Customer Service Survey: <http://per2.nwp.usace.army.mil/survey.html>. The New Orleans District Regulatory Branch is committed to improving our service to you and would like your honest opinions of how we are

doing. If you do not have internet access you may request a hard copy of the Customer Service Survey by calling (504) 862-2257. Your input is important to us, thank you for your time.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

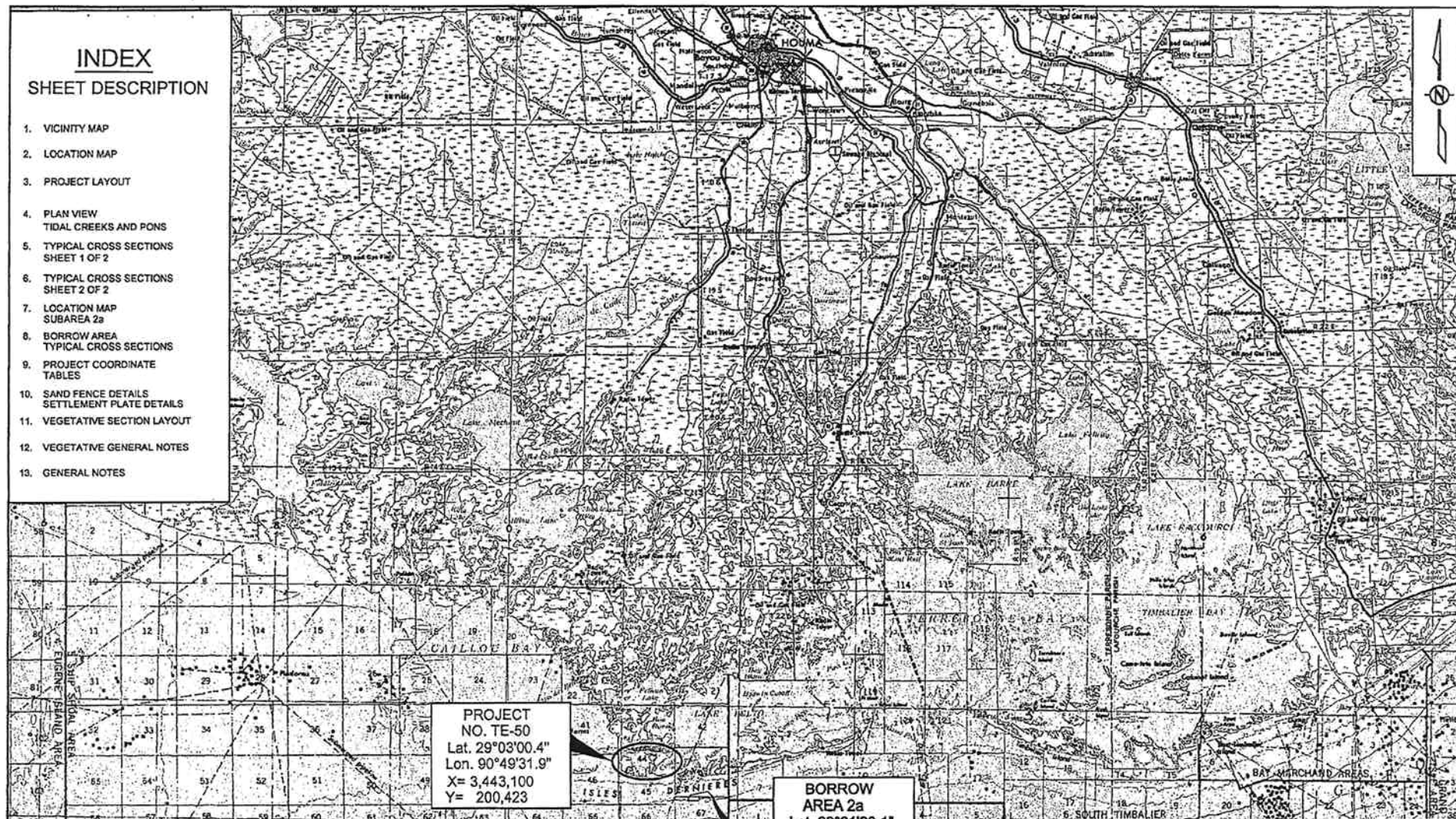
A handwritten signature in cursive script, appearing to read "Pete Serio".

Pete J. Serio
Chief, Regulatory Branch
for
Alvin B. Lee
Colonel, U.S. Army
District Commander

Enclosures

INDEX SHEET DESCRIPTION

- VICINITY MAP
- LOCATION MAP
- PROJECT LAYOUT
- PLAN VIEW
TIDAL CREEKS AND PONS
- TYPICAL CROSS SECTIONS
SHEET 1 OF 2
- TYPICAL CROSS SECTIONS
SHEET 2 OF 2
- LOCATION MAP
SUBAREA 2a
- BORROW AREA
TYPICAL CROSS SECTIONS
- PROJECT COORDINATE
TABLES
- SAND FENCE DETAILS
SETTLEMENT PLATE DETAILS
- VEGETATIVE SECTION LAYOUT
- VEGETATIVE GENERAL NOTES
- GENERAL NOTES



PROJECT
NO. TE-50
Lat. 29°03'00.4"
Lon. 90°49'31.9"
X= 3,443,100
Y= 200,423

BORROW
AREA 2a
Lat. 29°01'20.1"
Lon. 90°46'28.7"
X= 3,459,409
Y= 190,370

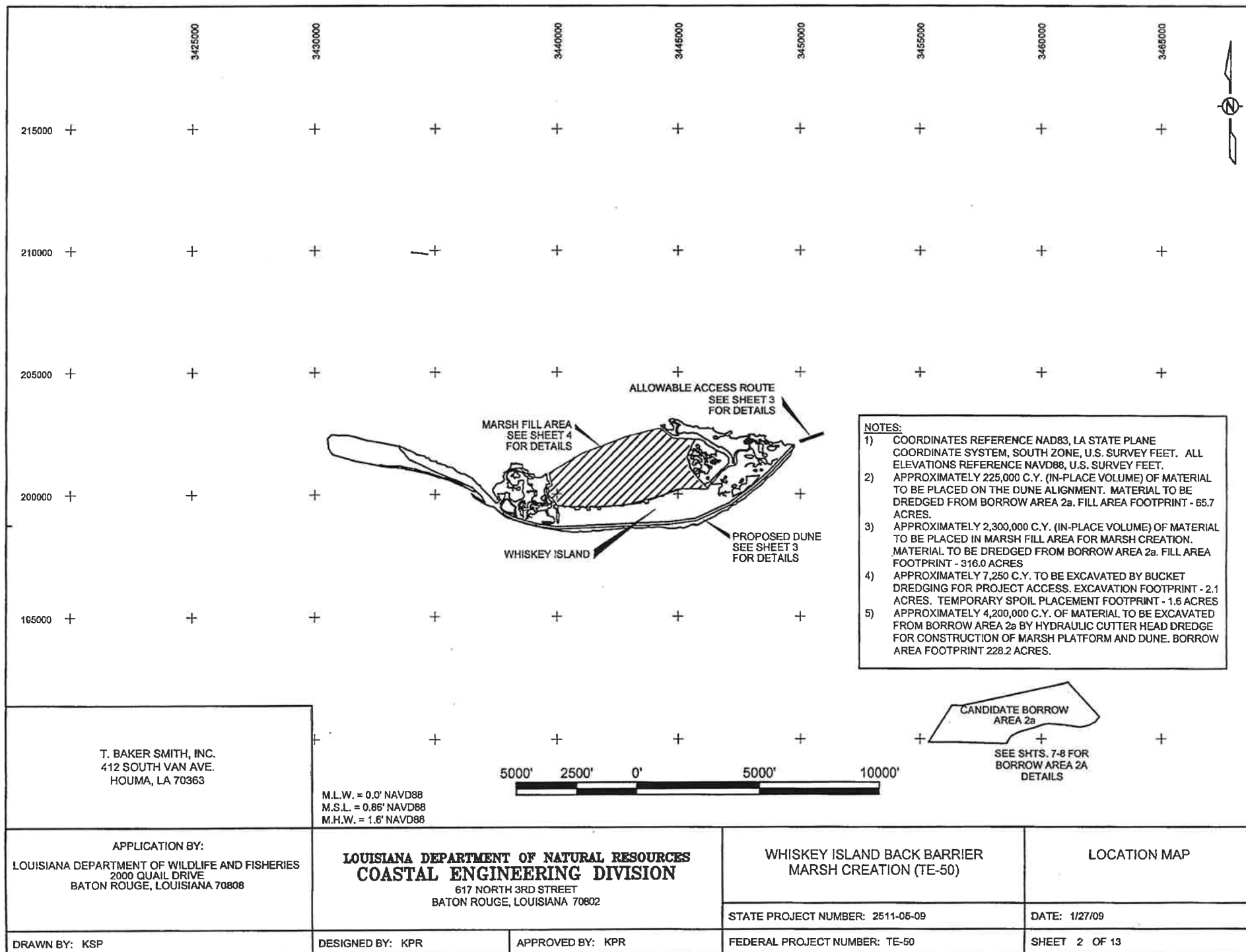
GULF OF MEXICO

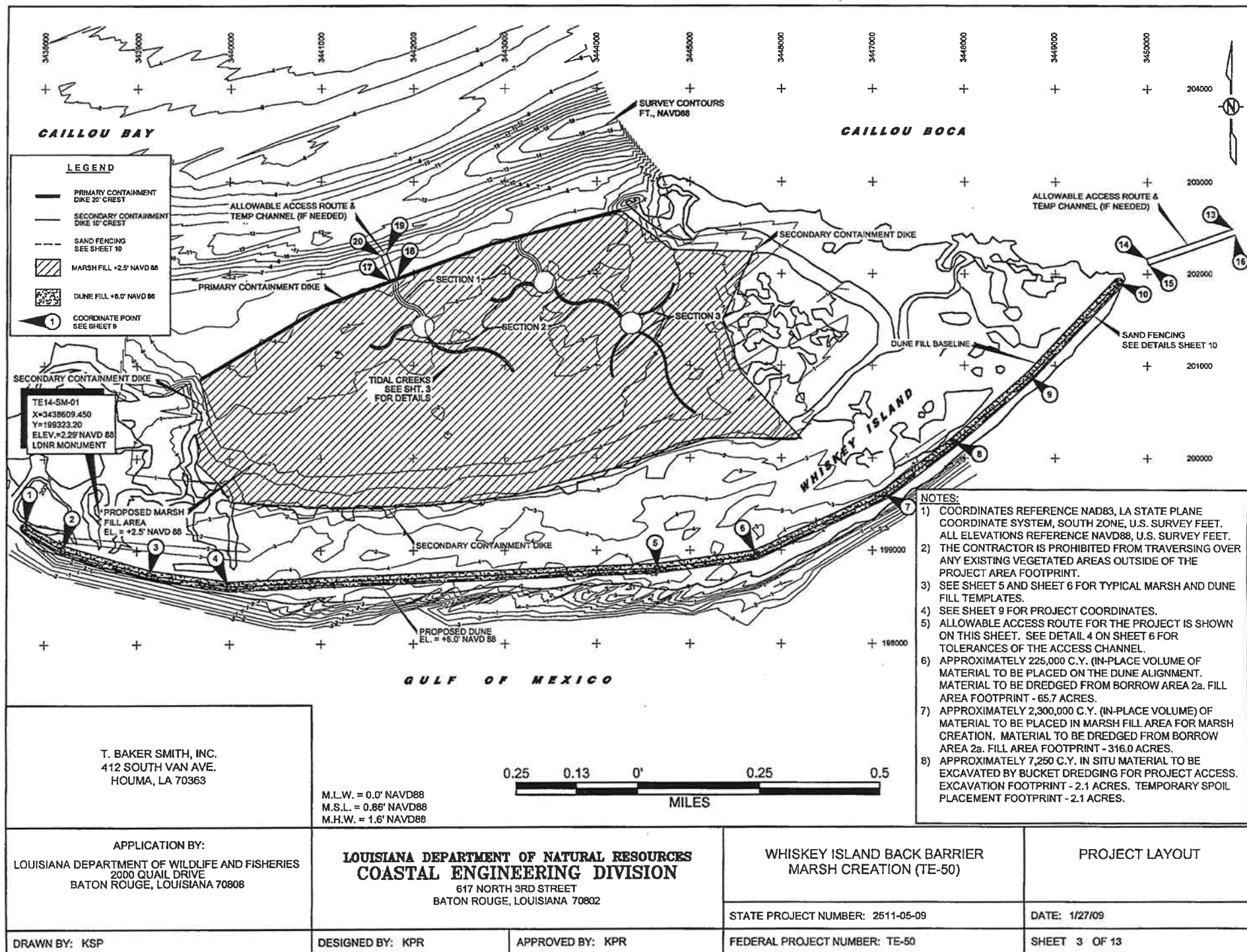
COORDINATES REFERENCE NAD83, LA STATE PLANE
COORDINATE SYSTEM, SOUTH ZONE, U.S. SURVEY
FEET. ALL ELEVATIONS REFERENCE NAVD88, U.S.
SURVEY FEET.

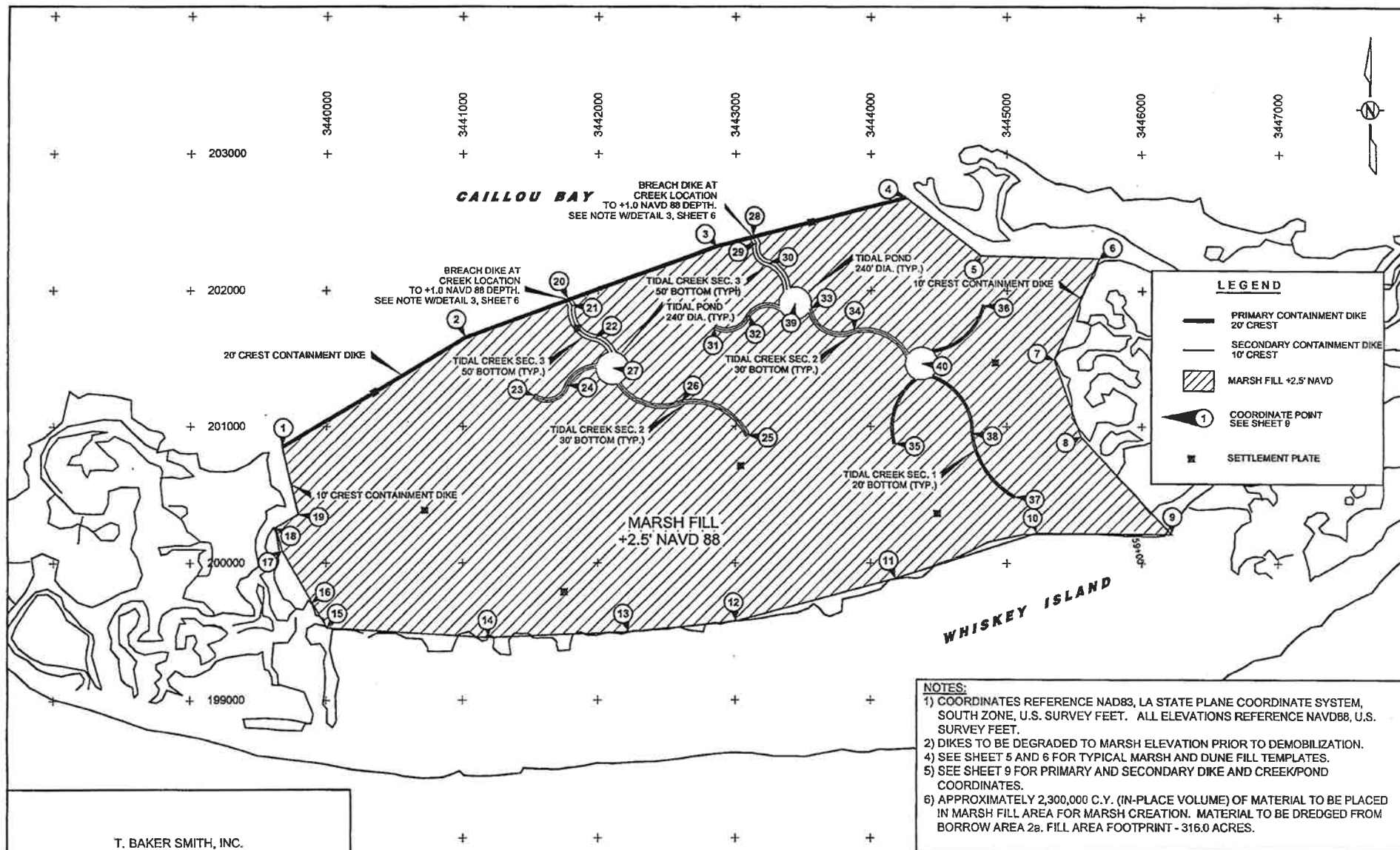
T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

40,000' 20,000' 0' 40,000' 80,000'

APPLICATION BY: LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES 2000 QUAIL DRIVE BATON ROUGE, LOUISIANA 70808	LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50) STATE PROJECT NUMBER: 2511-05-09	VICINITY MAP DATE: 1/27/09
DRAWN BY: KSP	DESIGNED BY: KPR	APPROVED BY: KPR	FEDERAL PROJECT NUMBER: TE-50 SHEET 1 OF 13







T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

M.L.W. = 0.0' NAVD88
M.S.L. = 0.86' NAVD88
M.H.W. = 1.6' NAVD88

1000' 500' 0' 1000' 2000'

APPLICATION BY:
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
2000 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

PLAN VIEW
TIDAL CREEKS AND PONDS

STATE PROJECT NUMBER: 2511-05-09

DATE: 1/27/09

DRAWN BY: KSP

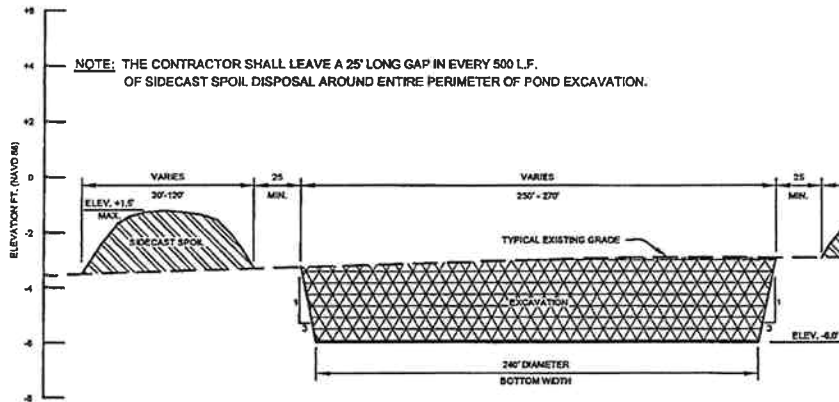
DESIGNED BY: KPR

APPROVED BY: KPR

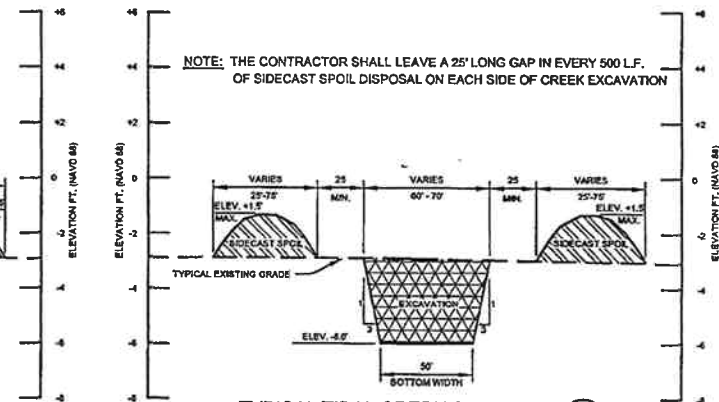
FEDERAL PROJECT NUMBER: TE-50

SHEET 4 OF 13

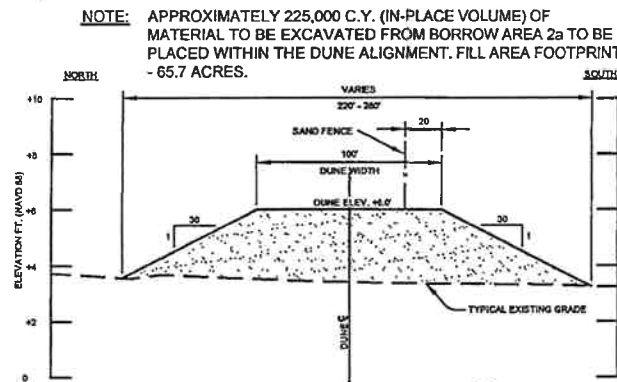
NOTE: APPROXIMATELY 49,000 C.Y. OF MATERIAL TO BE EXCAVATED BY
 BUCKET DREDGE FOR CONSTRUCTION OF TIDAL CREEKS AND
 PONDS. EXCAVATION FOOTPRINT - 10.3 ACRES. FILL AREA
 FOOTPRINT INCLUDED IN MARSH FILL QUANTITIES.



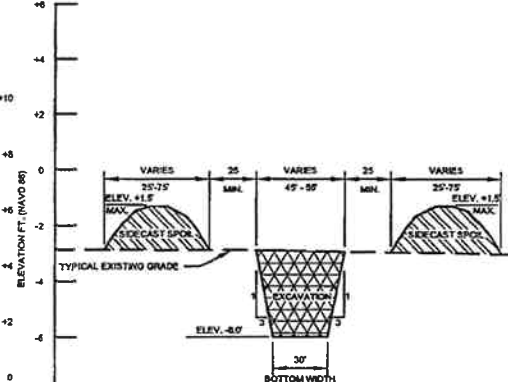
TYPICAL TIDAL POND SECTION 4
 SCALE: HORIZ 1"=100'
 VERT 1"=6'



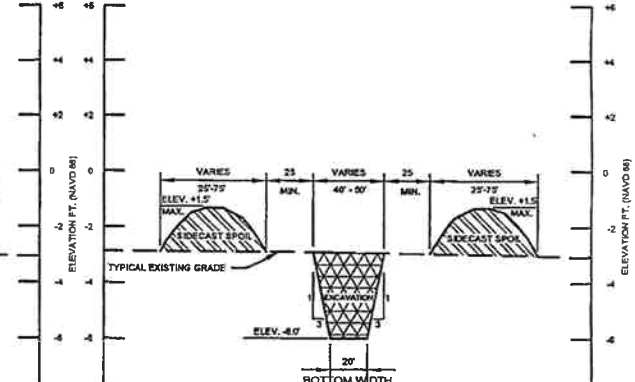
TYPICAL TIDAL CREEK SECTION 1
 SCALE: HORIZ 1"=100'
 VERT 1"=6'



TYPICAL DUNE SECTION 5
 SCALE: HORIZ 1"=100'
 VERT 1"=6'



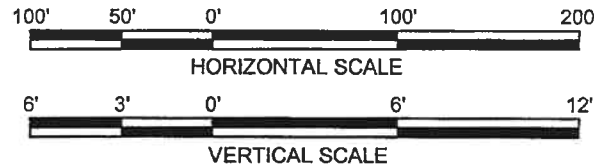
TYPICAL TIDAL CREEK SECTION 2
 SCALE: HORIZ 1"=100'
 VERT 1"=6'



TYPICAL TIDAL CREEK SECTION 3
 SCALE: HORIZ 1"=100'
 VERT 1"=6'

T. BAKER SMITH, INC.
 412 SOUTH VAN AVE.
 HOUMA, LA 70363

M.L.W. = 0.0' NAVD88
 M.S.L. = 0.86' NAVD88
 M.H.W. = 1.6' NAVD88



APPLICATION BY:
 LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
 2000 QUAIL DRIVE
 BATON ROUGE, LOUISIANA 70808

**LOUISIANA DEPARTMENT OF NATURAL RESOURCES
 COASTAL ENGINEERING DIVISION**
 617 NORTH 3RD STREET
 BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
 MARSH CREATION (TE-50)

TYPICAL CROSS SECTIONS
 SHEET 1 OF 2

DRAWN BY: KSP

DESIGNED BY: KPR

APPROVED BY: KPR

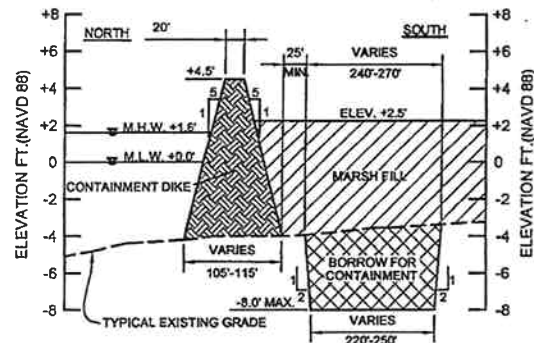
STATE PROJECT NUMBER: 2511-05-09

DATE: 1/27/09

FEDERAL PROJECT NUMBER: TE-50

SHEET 5 OF 13

NOTE: THE CONTRACTOR SHALL LEAVE A 25' LONG PLUG OF UNDISTURBED MATERIAL IN EVERY 500 L.F. OF BORROW FOR DIKE CONSTRUCTION

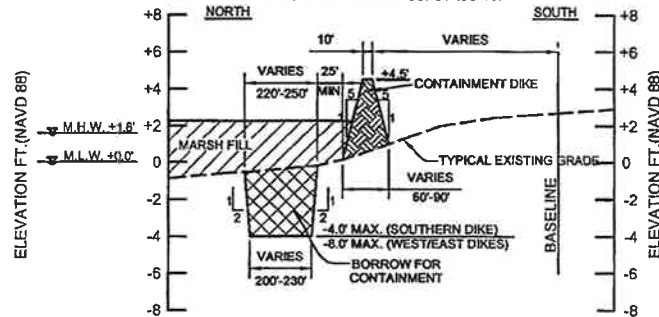


TYPICAL PRIMARY CONTAINMENT DIKE SECTION ①
SCALE: HORIZ 1"=200'
VERT 1"=10'

105'-115'

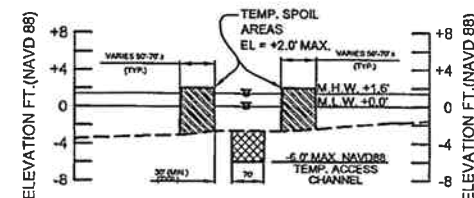
NOTE: APPROXIMATELY 167,000 C.Y. OF MATERIAL TO BE EXCAVATED BY BUCKET DREDGE FOR CONSTRUCTION OF PRIMARY AND SECONDARY CONTAINMENT DIKES. EXCAVATION FOOTPRINT - 35.0 ACRES. CONTAINMENT DIKE FOOTPRINT - 31.0 ACRES. BORROW AREA FOR CONTAINMENT DIKES WILL BE REFILLED WITH HYDRAULICALLY PLACED MATERIAL FROM BORROW AREA 2a. CONTAINMENT DIKES TO BE DEGRADED TO MARSH PLATFORM ELEVATION PRIOR TO DEMOBILIZATION

NOTE: THE CONTRACTOR SHALL LEAVE A 25' LONG PLUG OF UNDISTURBED MATERIAL IN EVERY 500 L.F. OF BORROW FOR DIKE CONSTRUCTION



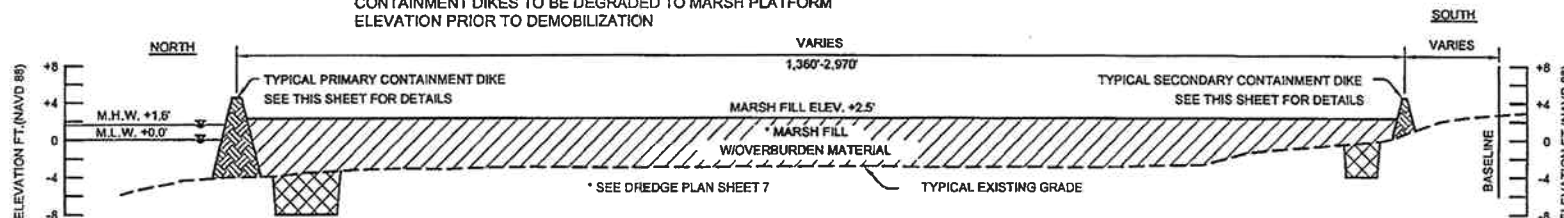
TYPICAL SECONDARY CONTAINMENT DIKE SECTION ②
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTE: TEMPORARY SPOIL FOR ACCESS CHANNELS SHALL BE BACKFILLED INTO THE FLOTATION CHANNEL PRIOR TO DEMOBILIZATION



PRIMARY ACCESS CHANNEL ④
SCALE: HORIZ 1"=400'
VERT 1"=20'

NOTE: APPROXIMATELY 7,250 C.Y. EXCAVATED BY BUCKET DREDGING FOR PROJECT ACCESS. EXCAVATION FOOTPRINT - 2.1 ACRES. TEMPORARY SPOIL PLACEMENT FOOTPRINT - 2.1 ACRES.



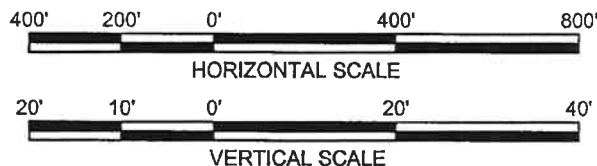
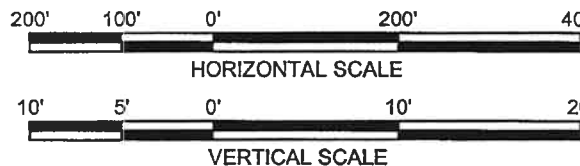
NOTE: APPROXIMATELY 2,300,000 C.Y. (IN-PLACE VOLUME) OF MATERIAL TO BE PLACED IN MARSH FILL AREA FOR MARSH CREATION. MATERIAL TO BE DREDGED FROM BORROW AREA 2a. FILL AREA FOOTPRINT - 316.0 ACRES.

TYPICAL MARSH FILL SECTION ③
SCALE: HORIZ 1"=400'
VERT 1"=20'

NOTE: CONTRACTOR TO BREACH AN APPROXIMATE 70' WIDE SECTION OF THE CONTAINMENT DIKE CENTERING THE BREACH ON EACH CREEK OPENING. ONLY THE CROWN SECTION OF THE CONTAINMENT DIKE SHALL BE BREACHED. REMOVE MATERIAL FROM THE CROWN OF THE DIKE TO ELEVATION OF +1.0 NAVD 88. PLACE THE REMOVED MATERIAL WITHIN THE MARSH PLATFORM TEMPLATE AND SPREAD OUTSIDE OF THE FOOTPRINT OF THE CREEK EXCAVATION.

T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

M.L.W. = 0.0' NAVD88
M.S.L. = 0.86' NAVD88
M.H.W. = 1.6' NAVD88



APPLICATION BY:
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
2000 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

**LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION**
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

TYPICAL CROSS SECTIONS
SHEET 2 OF 2

DRAWN BY: KSP

DESIGNED BY: KPR

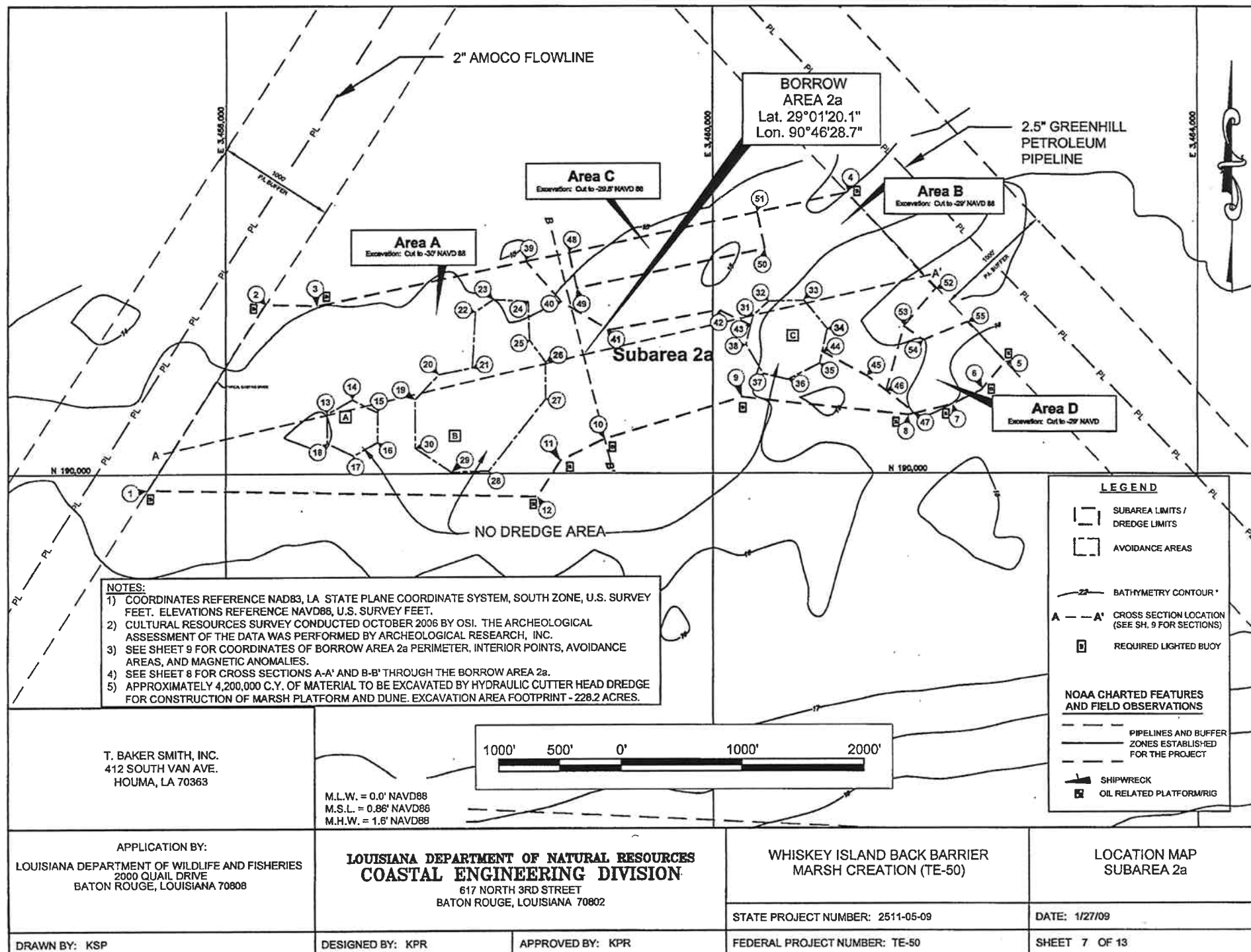
APPROVED BY: KPR

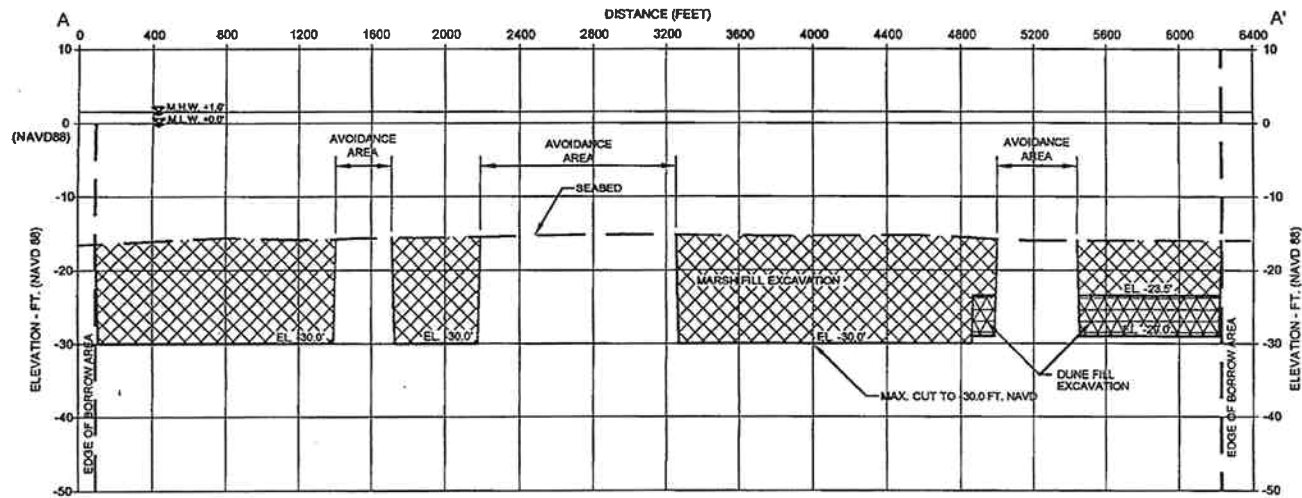
STATE PROJECT NUMBER: 2511-05-09

DATE: 1/27/09

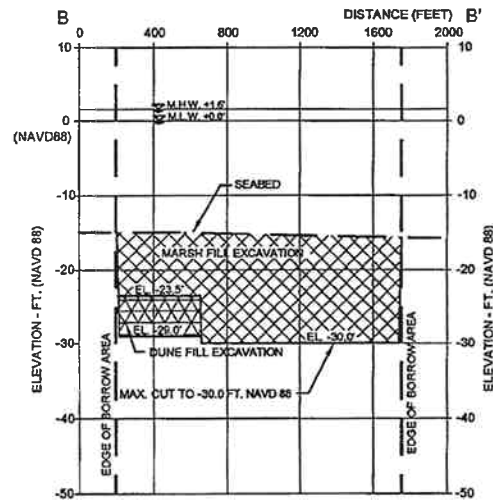
FEDERAL PROJECT NUMBER: TE-50

SHEET 6 OF 13





SECTION A-A'
SCALE: HORIZ 1"=1000'
VERT 1"=30'



SECTION B-B'
SCALE: HORIZ 1"=1000'
VERT 1"=30'

T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

M.L.W. = 0.0' NAVD88
M.S.L. = 0.86' NAVD88
M.H.W. = 1.6' NAVD88

APPLICATION BY:
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
2000 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

**LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION**
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

BORROW AREA
TYPICAL CROSS SECTIONS

STATE PROJECT NUMBER: 2511-05-09

DATE: 1/27/09

DRAWN BY: KSP

DESIGNED BY: KPR

APPROVED BY: KPR

FEDERAL PROJECT NUMBER: TE-50

SHEET 8 OF 13

DREDGE AREA 2a PERIMETER POINTS (NAD83)

POINT #	X	Y
1	3456326.097	191383.064
2	3456343.223	191369.993
3	3456747.155	191368.961
4	3461108.856	192299.849
5	3462416.555	190910.600
6	3462221.123	190691.767
7	3461971.324	190564.269
8	3461604.253	190477.904
9	3460242.418	190615.701
10	3458945.561	190222.581
11	3458748.908	190103.055
12	3458560.691	189805.449

DREDGE AREA 2a INTERIOR POINTS (NAD83)

POINT #	X	Y
39	3458466.96	191739.85
40	3458762.39	191402.18
41	3459144.06	191173.71
42	3460052.59	191338.21
43	3460314.14	191211.88
44	3460898.82	190997.05
45	3461263.95	190797.68
46	3461419.96	190675.30
47	3461663.26	190492.03
48	3458818.63	191810.73
49	3458883.34	191517.76
50	3460431.54	191845.67
51	3460363.89	192146.09
52	3461832.05	191517.57
53	3461568.31	191205.24
54	3461727.94	191089.56
55	3462095.79	191242.26

DREDGE AREA 2a AVOIDANCE AREA A (NAD83)

POINT #	X	Y
13	3456827.537	190488.259
14	3457033.464	190605.488
15	3457239.391	190498.803
16	3457237.530	190257.521
17	3457044.629	190147.114
18	3456830.018	190250.078

DREDGE AREA 2a AVOIDANCE AREA B (NAD83)

POINT #	X	Y
19	3457548.444	190605.178
20	3457745.183	190809.787
21	3458021.354	190865.552
22	3458050.000	191324.891
23	3458198.708	191428.221
24	3458488.982	191409.886
25	3458496.156	191088.721
26	3458627.791	190911.321
27	3458627.791	190608.103
28	3458158.660	190018.829
29	3457848.612	190011.588
30	3457549.568	190209.451

DREDGE AREA 2a AVOIDANCE AREA C (NAD83)

POINT #	X	Y
31	3460335.115	191292.655
32	3460462.795	191411.470
33	3460750.078	191416.790
34	3460839.826	191184.481
35	3460877.759	190900.746
36	3460620.624	190767.745
37	3460416.689	190815.625
38	3460274.821	191051.480

ACCESS ROUTE & TEMP. CHANNEL (NAD83)

POINT #	X	Y
13	3450937.58	202493.97
14	3449992.51	202167.09
15	3450015.40	202100.94
16	3450960.46	202427.82
17	3441750.50	201918.48
18	3441616.25	201942.53
19	3441705.32	202218.50
20	3441649.05	202195.91

DUNE FILL CENTERLINE COORDINATES (NAD83)

POINT #	X	Y	STATION	BEARING TO NEXT PT.
1	3437791.726	199252.125	200+00.00	S 59°37'57" E
2	3438202.585	199011.400	204+76.17	S 73°53'52" E
3	3439135.822	198741.960	214+47.54	S 81°40'45" E
4	3439990.172	198617.037	223+10.98	N 87°39'21" E
5	3444653.389	198807.925	269+78.10	N 82°20'13" E
6	3445721.453	198951.632	280+55.79	N 65°13'02" E
7	3447132.813	199003.161	296+10.09	N 53°08'48" E
8	3447888.845	200170.530	305+55.34	N 49°25'57" E
9	3448723.156	200884.972	316+53.90	N 43°26'10" E
10	3449691.026	201807.172	330+61.61	N/A

CREEK AND POND COORDINATES (NAD83)

POINT #	X (BEGIN)	Y (BEGIN)	CHORD BEARING TO NEXT PT.	CHORD LENGTH	RADIUS (FEET)
20	3441782.44	201832.09	S 30°39'41" E	48.6	TANGENT
21	3441807.24	201890.25	S 35°06'30" E	295.3	206.3
22	3441977.08	201648.70	S 50°04'00" E	160.2	174.1
23	3441933.26	201225.27	N 72°00'05" E	252.2	151.2
24	3441772.08	201303.18	N 58°46'41" E	255.5	266.7
25	3443089.38	200933.85	N 63°50'08" W	544.6	453.4
26	3442600.57	201173.99	N 72°27'13" W	470.4	367.2
27	3442104.59	201425.99	N/A	N/A	120.0
28	3443125.49	202393.31	S 32°26'13" E	51.6	TANGENT
29	3443159.19	202345.74	S 30°45'06" E	172.4	115.5
30	3443241.55	202201.61	S 34°51'40" E	233.9	207.4
31	3442644.79	201728.99	N 69°30'59" E	270.5	179.9
32	3443098.77	201822.19	N 78°15'08" E	230.5	172.1
33	3443547.97	201858.12	S 63°47'17" E	365.0	232.0
34	3443875.45	201697.60	S 65°44'55" E	439.2	349.6
35	3444174.42	200873.31	N 18°20'53" E	500.0	446.8
36	3444624.89	201892.93	S 47°33'58" W	506.6	445.9
37	3445090.69	200493.88	N 34°12'25" W	560.9	625.1
38	3444745.39	200347.70	N 35°43'09" W	515.1	429.3
39	3443438.13	201807.44	N/A	N/A	120.0
40	3444371.63	201461.14	N/A	N/A	120.0

PRIMARY & SECONDARY CONTAINMENT DIKE POINTS (NAD83)

POINT #	X	Y
1	3439677.136	200848.959
2	3441018.939	201651.320
3	3442859.651	202324.095
4	3444258.786	202681.321
5	3444806.532	202258.604
6	3445686.158	202239.227
7	3445351.028	201490.532
8	3445552.662	200828.272
9	3446218.076	200210.495
10	3445218.373	200216.644
11	3444182.915	199888.519
12	3443005.831	199576.019
13	3442224.581	199497.894
14	3441193.331	199456.227
15	3440006.737	199530.005
16	3439897.495	199712.012
17	3439680.343	200089.778
18	3439631.525	200256.506
19	3439795.486	200355.204

T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

APPLICATION BY:
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
2050 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

**LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION**

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

PROJECT COORDINATE
TABLES

STATE PROJECT NUMBER: 2511-05-09

DATE: 1/27/09

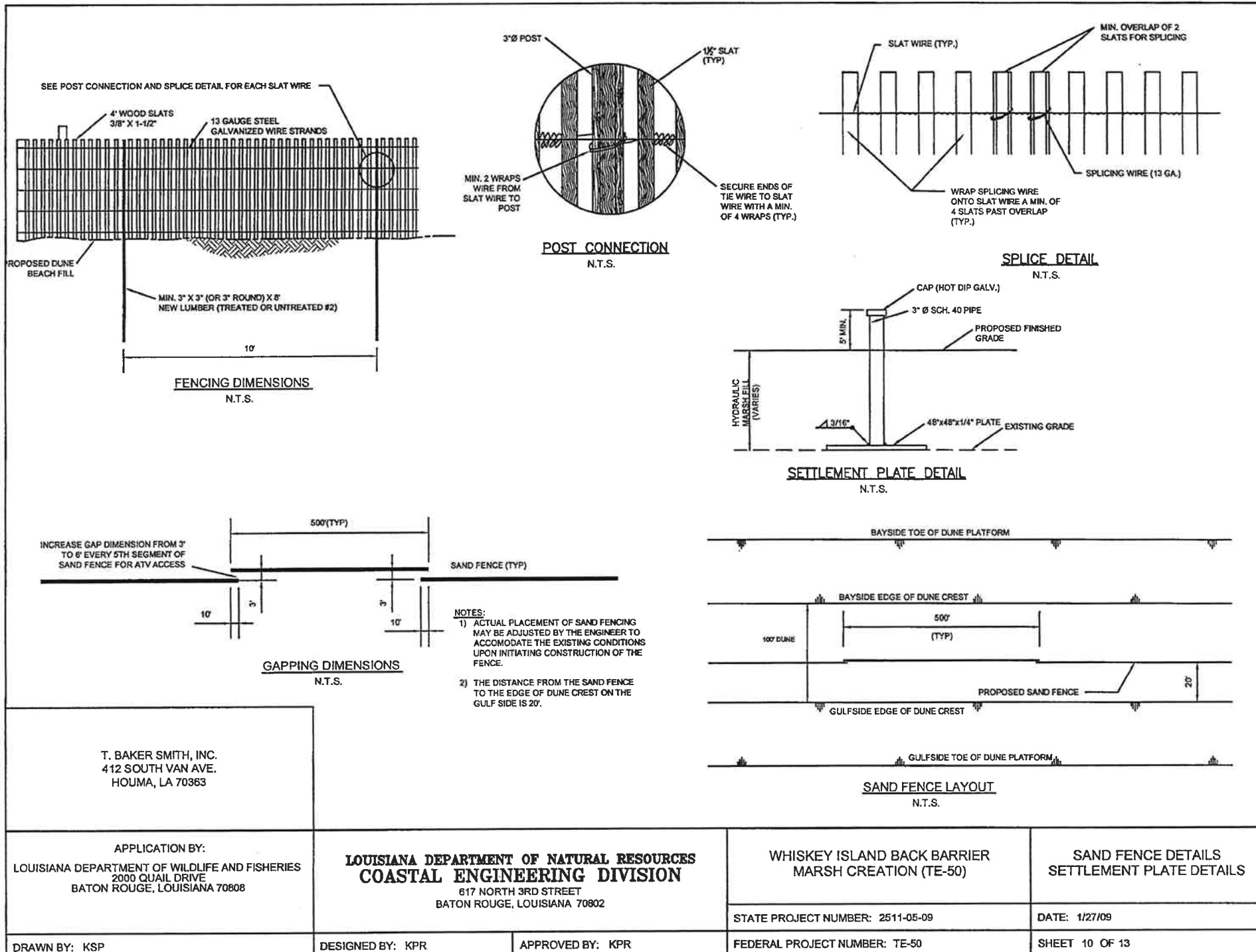
DRAWN BY: KSP

DESIGNED BY: KPR

APPROVED BY: KPR

FEDERAL PROJECT NUMBER: TE-50

SHEET 9 OF 13



T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

APPLICATION BY:
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
2000 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

**LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION**
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

SAND FENCE DETAILS
SETTLEMENT PLATE DETAILS

STATE PROJECT NUMBER: 2511-05-09

DATE: 1/27/09

DRAWN BY: KSP

DESIGNED BY: KPR

APPROVED BY: KPR

FEDERAL PROJECT NUMBER: TE-50

SHEET 10 OF 13

	VOLUME (CY)	ACREAGE (Acres)
BORROW AREA 2a EXCAVATION	4,200,000	228.2
CONTAINMENT DIKE EXCAVATION	167,000	35.0
TIDAL CREEK & POND EXCAVATION	49,000	10.3
TEMPORARY ACCESS ROUTE EXCAVATION	7,250	2.1
NOTE: VOLUMES ARE CALCULATED TO THE MAXIMUM DEPTH OF EQUIPMENT		

	VOLUME (CY)	ACREAGE (Acres)
MARSH FILL (IN-PLACE)	2,300,000	316.0
DUNE FILL (IN-PLACE)	225,000	65.7

NOTES:

1. TEMPORARY SPOIL FOR ACCESS CHANNELS SHALL BE BACKFILLED INTO THE FLOTATION CHANNEL PRIOR TO DEMOBILIZATION.
2. EXCAVATED AREAS FOR CONTAINMENT DIKE CONSTRUCTION AND TIDAL CREEKS AND PONDS WILL BE REFILLED WITH HYDRAULICALLY PLACED MATERIAL FROM BORROW AREA 2a DURING CONSTRUCTION OF THE MARSH PLATFORM.
3. THE BORROW AREA 2a VOLUME EXCEEDS THE FILL VOLUME TO ACCOUNT FOR THE FOLLOWING:
 - a. WHEN FINE-GRAINED MATERIAL IS DREDGED, LOSSES TYPICALLY OCCUR DURING TRANSPORT, PLACEMENT, AND DEWATERING. ASSUMED CUT-TO-FILL RATIO FOR THE MARSH FILL IS 1.2:1; ASSUMED CUT-TO-FILL RATIO FOR THE DUNE FILL IS 1.6:1. AVAILABLE BORROW AREA VOLUMES CONSIDERS VARIATIONS IN THE CUT-TO-FILL RATIOS.
 - b. POTENTIAL DIFFERING SITE CONDITIONS PRIOR TO CONSTRUCTION THAT WOULD RESULT IN MINOR VARIATIONS IN FILL VOLUME NEEDS.

T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

APPLICATION BY:
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
2000 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

GENERAL NOTES

STATE PROJECT NUMBER: 2511-05-09

DATE: 1/27/09

DRAWN BY: KSP

DESIGNED BY: KPR

APPROVED BY: KPR

FEDERAL PROJECT NUMBER: TE-50

SHEET 13 OF 13

Site Copy

DEPARTMENT OF THE ARMY PERMIT

Permittee: Louisiana Department of Wildlife and Fisheries

Permit No. MVN 2008-226-CY

Issuing Office: New Orleans District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Dredge to construct a temporary access channel and excavate and deposit material to reconstruct the dune complex, install containment dikes and a sand fence, and build a marsh platform with tidal creeks and ponds, all for the purpose of implementing the Whiskey Island Back Barrier Marsh Creation Project (CWPPRA TE-50), in accordance with drawings attached in 13 sheets, dated December 10, 2007 with no revisions.

Project Location: In the Isles Dernieres Island chain, Whiskey Island, approximately 17 miles southwesterly from Cocodrie, Louisiana, and the dredge area located in the Gulf of Mexico approximately 2.4 miles southeasterly from Whiskey Island, in Terrebonne Parish.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **MAY 31, 2013**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least 1 month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions: Page 4

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

- (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
- () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

- a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:


- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
- a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.


Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

X  X 6/2/08
(PERMITTEE) (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

 5-June-2008
Michael V. Farabee, Chief Eastern Evaluation Section (DATE)

for Alvin B. Lee, District Commander

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEE) (DATE)

FIELD ORDER NO. 2

PROJECT:

Whiskey Island Back Barrier Marsh Creation Project

DATE OF ISSUANCE:

April 23, 2009

OWNER:

Louisiana Department of Natural Resources
1440 Tiger Drive STE B
Thibodaux, LA 70301

OWNER'S PROJECT NO.

TE-50

CONTRACTOR:

Weeks Marine, Inc.
Post Office Box 4339
Houma, Louisiana 70361

ENGINEER:

T. Baker Smith, Inc.
412 South Van Ave.
Houma, LA 70363

CONTRACT FOR:

Whiskey Island Back Barrier Marsh Creation Project

ENGINEER'S PROJECT NO.

2009.0105

You are directed to make the following changes in the Contract Documents.

Description:

On request by the contractor, the Owner has submitted and received a permit modification include allowable access and temporary channel from Caillou Bay as shown and described on sheet 3 of 13 and 9 of 13 on the attached permit.

Attachments:

- 1 Department of the Army, Permit Modification dated April 17, 2009
- 2 Department of the Army, Department of the Army Permit Evaluation and Decision Document, Application No.: MVN 2008-00226WW
- 3 Whiskey Island Back Barrier Marsh Creation Project (TE-50) Access Channel, Plan View, Sheet 1 of 1, Dated 02/28/09
- 4 Whiskey Island Back Barrier Marsh Creation Project (TE-50) Proposed Access Channel, Plan View, Sheet 1 of 1, Dated 02/28/09
- 5 Department of Natural Resources, Office of Coastal Restoration and Management letter dated February 10, 2009

RECEIVED

MAY 06 2009

ced

This Field Order does not constitute a change in Contract Time and/or Contract Cost.

RECOMMENDED:

By: *[Signature]*

Engineer

Date: 5/4/09

APPROVED:

By: *[Signature]*

LDNR

Date: 5/7/09

ACCEPTED:

By: *[Signature]*

Contractor

Date: 4-30-09



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P. O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

ATTENTION OF:
CEMVN-OD-SW

REPLY TO

Department of the Army Permit Evaluation
and Decision Document

Applicant: Louisiana Department of Wildlife and Fisheries

Application No.: MVN 2008-00226 WW

This document constitutes my Environmental Assessment, Statement of Findings and, if applicable, review and compliance determination according to the 404(b)(1) guidelines for the proposed work.

The applicant has requested Department of the Army approval to conduct dredging operations to access work areas for the Whiskey Island Back Barrier Island Marsh Creation Project, located on Whiskey Island approximately 17 miles southwesterly of the community of Cocodrie in Terrebonne Parish, Louisiana,

I have determined that the proposed work need not be advertised by public notice for the reason indicated below.

() The proposed request is for a time extension to continue work previously authorized. Regulations under 33 CFR 325.6(d) allow granting of time extensions without the need to readvertise a project by public notice if there have been no significant changes in the attendant circumstances since the authorization was issued.

(X) The work is a minor modification or addition to work previously permitted. The impacts of the proposed work are expected to have no adverse impacts or only very minor impacts.

() The proposed work qualifies for approval under 33 CFR 325.2(c)(1) by a letter of permission.

Although the proposed work is being authorized in accordance with abbreviated procedures allowed under regulations found under 33 CFR 320 through 330, the project has been assessed to include all the evaluation factors cited in 33 CFR 325.3(c) even though a detailed Environmental Assessment and a detailed Statement of Findings have not been prepared.

() Alternatives to include no action, other project designs and other sites were considered but not found to be practical or feasible.

Other factors relevant to the review of the applicant's proposal, if any, are listed below.

Having reviewed the information provided by the applicant, the permit file, and the assessment of environmental impacts, I find this permit action will not have a significant impact on the human environment. Therefore, an Environmental Impact Statement will not be required.

I find that issuance of a Department of the Army permit, as prescribed by regulations published in 33 CFR 320 to 330 and 40 CFR 230, is not contrary to the overall public interest.

4/15/09
Date

15 April 2009
Date

17 April 2009
Date


Preparer

Martin S. Mays
Reviewer

Pete Lewis
Approving Official



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

APR 17 2009

REPLY TO
ATTENTION OF

Operations Division
Western Evaluation Section

SUBJECT: MVN-2008-00226 WW

Mike Windham
Louisiana Department of Wildlife and Fisheries
2021 Lakeshore Drive, Suite 210
New Orleans, Louisiana 70122

Gentlemen:

The revised drawings attached in 15 sheets, furnished with your application received April 13, 2009, requesting approval to conduct dredging operations to access work areas for the Whiskey Island Back Barrier Island Marsh Creation Project, located on Whiskey Island approximately 17 miles southwesterly of the community of Cocodrie in Terrebonne Parish, Louisiana, are approved and will be included in your plans for the work authorized by the Department of Army Permit, dated April 17, 2008, from the District Engineer at New Orleans, Louisiana.

A copy of the first page of this permit approval letter must be conspicuously displayed at the project site. Also, you must keep a copy of this signed letter, with attached drawings, at the project site until the work is completed.

Should you have any further questions concerning this matter, please contact Kenneth Ashworth of this office at (504) 862-2548.

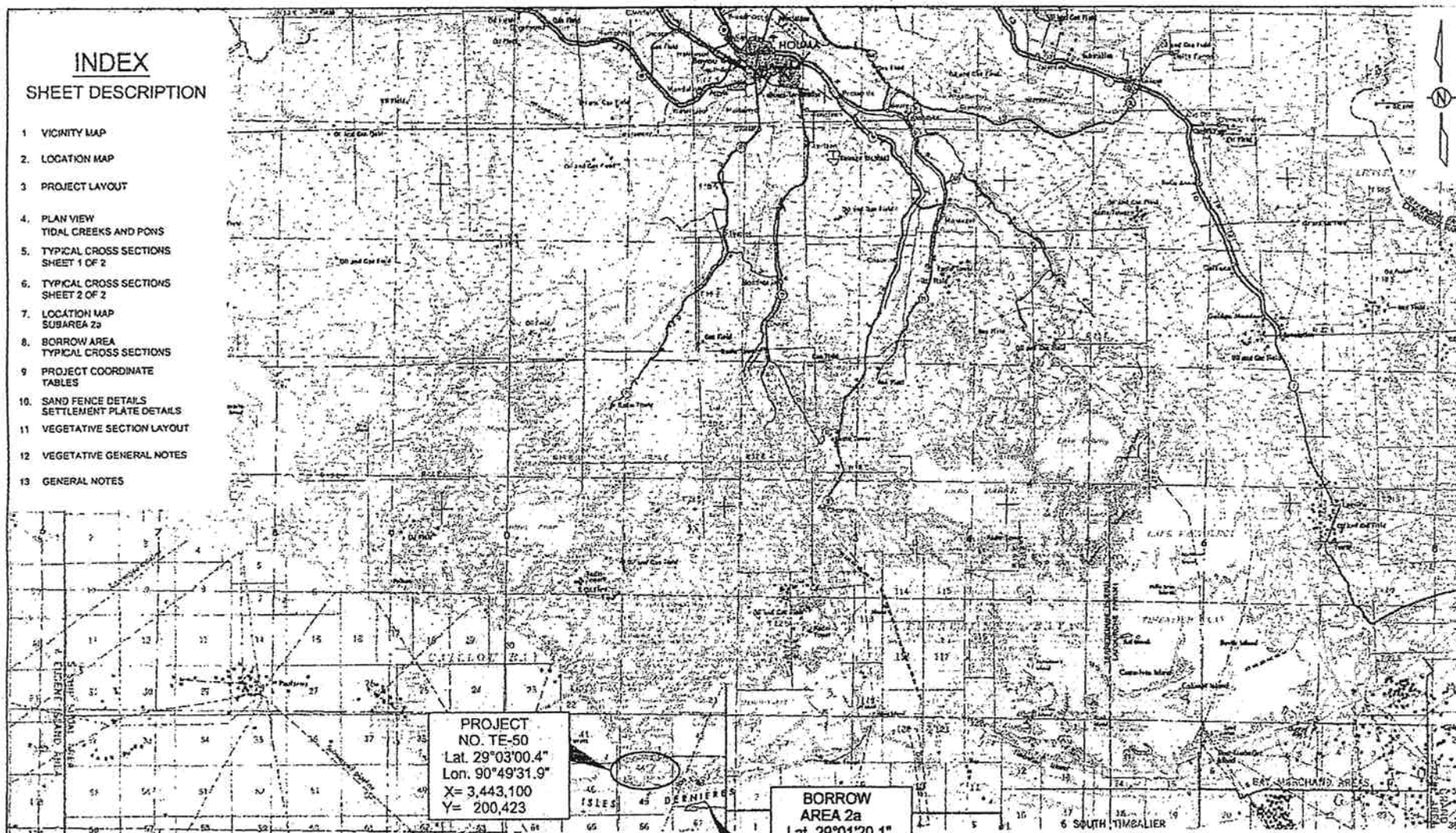
BY AUTHORITY OF THE SECRETARY OF THE ARMY

Pete J. Serio
Chief, Regulatory Branch
For
Col. Alvin B. Lee
District Engineer

Enclosures

INDEX SHEET DESCRIPTION

- 1 VICINITY MAP
- 2 LOCATION MAP
- 3 PROJECT LAYOUT
- 4 PLAN VIEW
TIDAL CREEKS AND PONS
- 5 TYPICAL CROSS SECTIONS
SHEET 1 OF 2
- 6 TYPICAL CROSS SECTIONS
SHEET 2 OF 2
- 7 LOCATION MAP
SUBAREA 2a
- 8 BORROW AREA
TYPICAL CROSS SECTIONS
- 9 PROJECT COORDINATE
TABLES
- 10 SAND FENCE DETAILS
SETTLEMENT PLATE DETAILS
- 11 VEGETATIVE SECTION LAYOUT
- 12 VEGETATIVE GENERAL NOTES
- 13 GENERAL NOTES



T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

GULF OF MEXICO

BORROW
AREA 2a
Lat. 29°01'20.1"
Lon. 90°46'28.7"
X= 3,459,409
Y= 190,370

COORDINATES REFERENCE NAD83, LA STATE PLANE
COORDINATE SYSTEM, SOUTH ZONE, U.S. SURVEY
FEET. ALL ELEVATIONS REFERENCE NAVD88, U.S.
SURVEY FEET.

40,000' 20,000' 0' 40,000' 80,000'

APPLICATION BY:
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
2000 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

VICINITY MAP

STATE PROJECT NUMBER: 2511-05-09

DATE: 3/30/2009

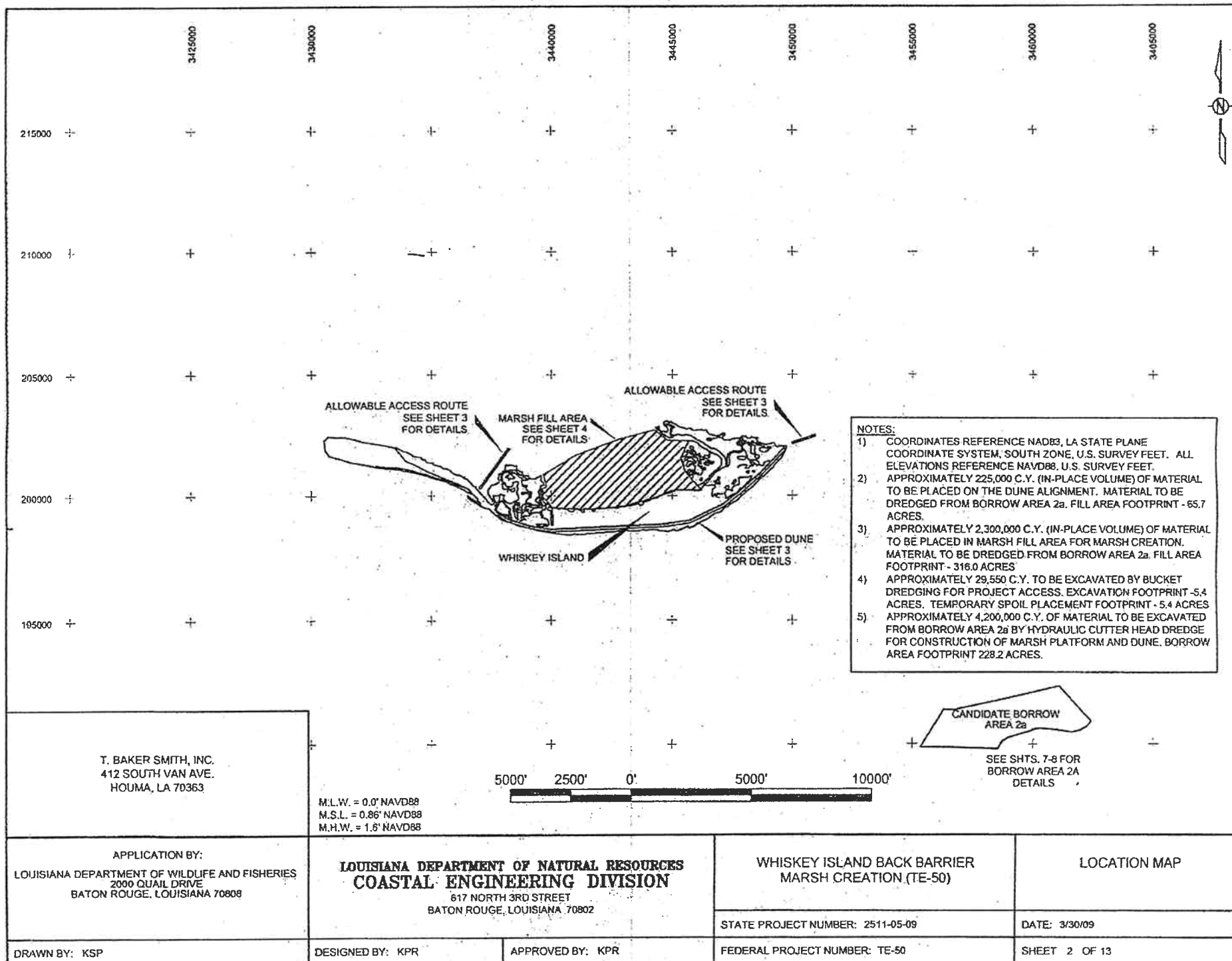
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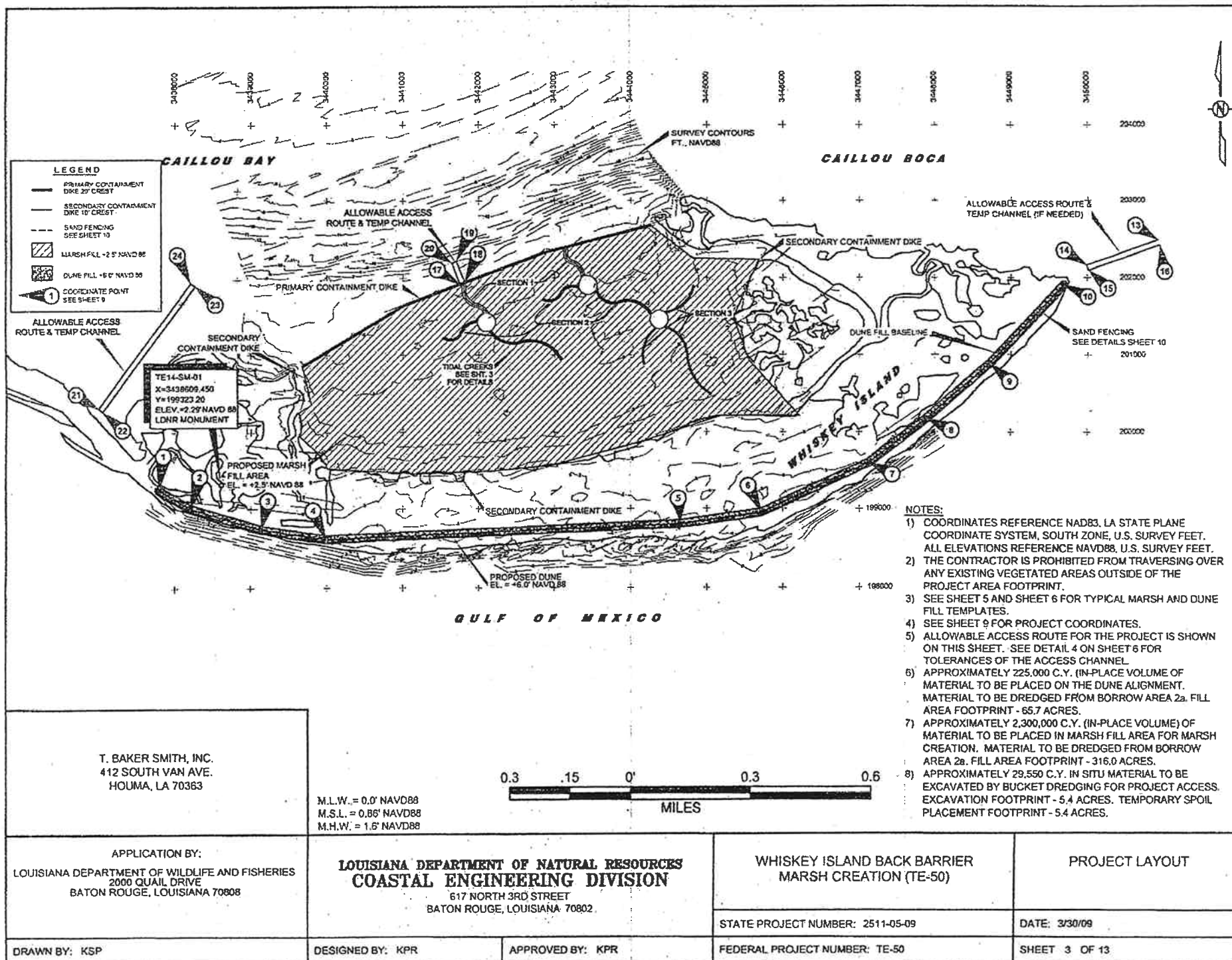
DESIGNED BY: KPR

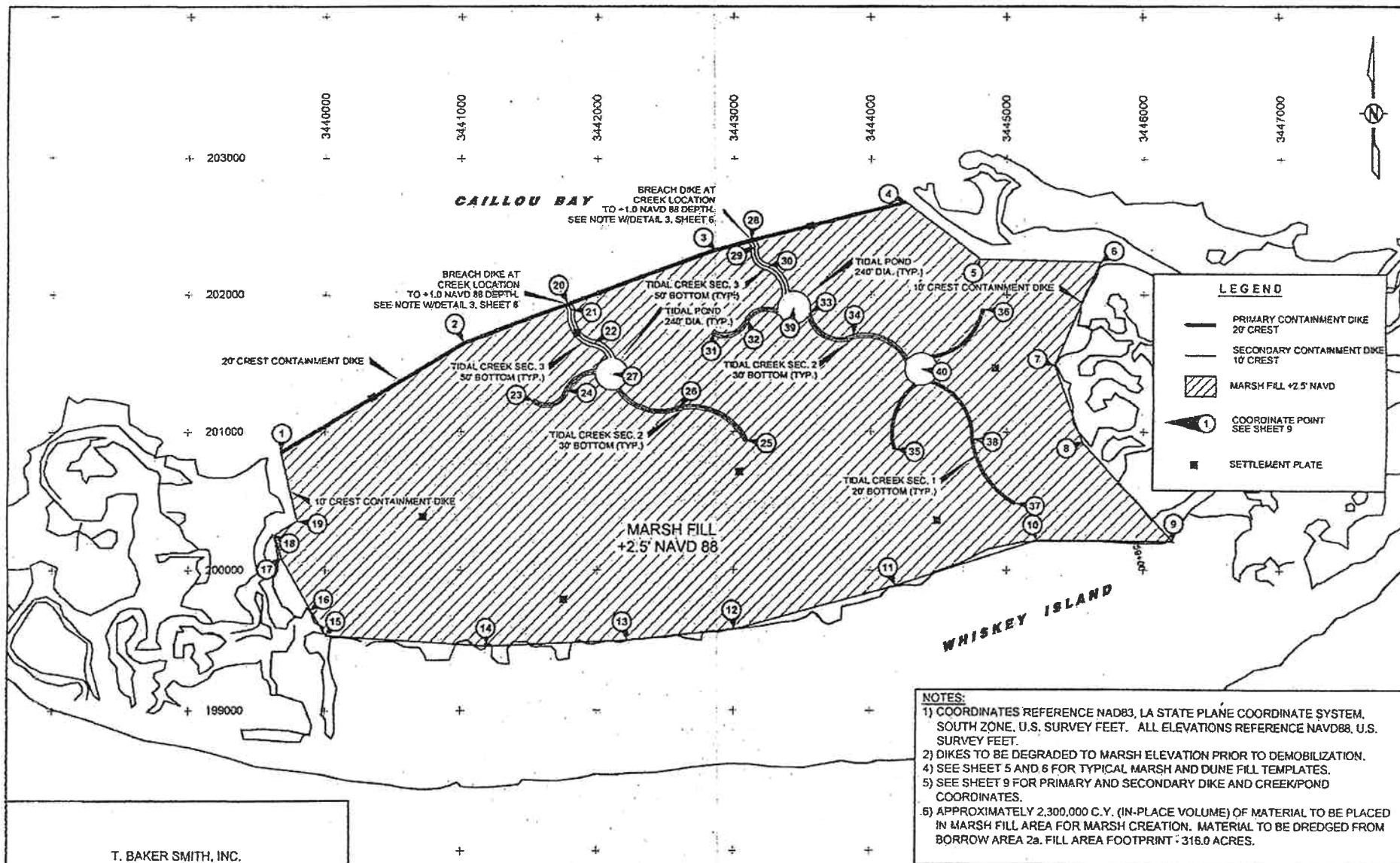
APPROVED BY: KPR

FEDERAL PROJECT NUMBER: TE-50

SHEET 1 OF 13







NOTES:

- 1) COORDINATES REFERENCE NAD83, LA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, U.S. SURVEY FEET. ALL ELEVATIONS REFERENCE NAVD88, U.S. SURVEY FEET.
- 2) DIKES TO BE DEGRADED TO MARSH ELEVATION PRIOR TO DEMOBILIZATION.
- 4) SEE SHEET 5 AND 6 FOR TYPICAL MARSH AND DUNE FILL TEMPLATES.
- 5) SEE SHEET 9 FOR PRIMARY AND SECONDARY DIKE AND CREEK/POND COORDINATES.
- 6) APPROXIMATELY 2,300,000 C.Y. (IN-PLACE VOLUME) OF MATERIAL TO BE PLACED IN MARSH FILL AREA FOR MARSH CREATION. MATERIAL TO BE DREDGED FROM BORROW AREA 2a. FILL AREA FOOTPRINT : 316.0 ACRES.

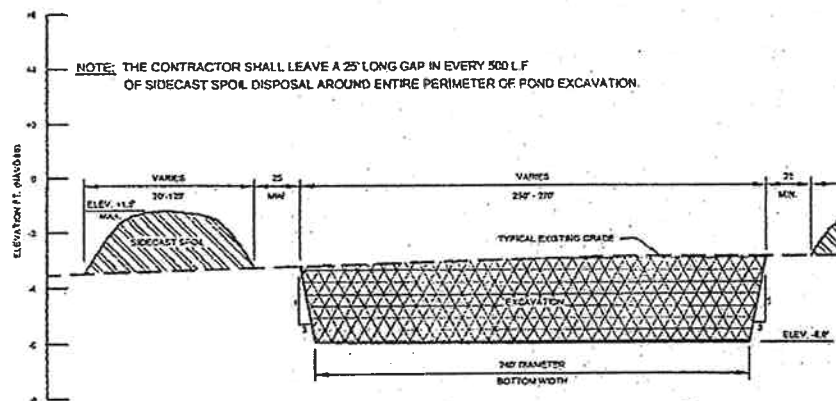
T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

M.L.W. = 0.0' NAVD88
M.S.L. = 0.86' NAVD88
M.H.W. = 1.6' NAVD88



APPLICATION BY: LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES 2000 QUAIL DRIVE BATON ROUGE, LOUISIANA 70808	LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)	PLAN VIEW TIDAL CREEKS AND PONDS
DRAWN BY: KSP	DESIGNED BY: KPR	APPROVED BY: KPR	STATE PROJECT NUMBER: 2511-05-09
		FEDERAL PROJECT NUMBER: TE-50	DATE: 3/30/09 SHEET 4 OF 13

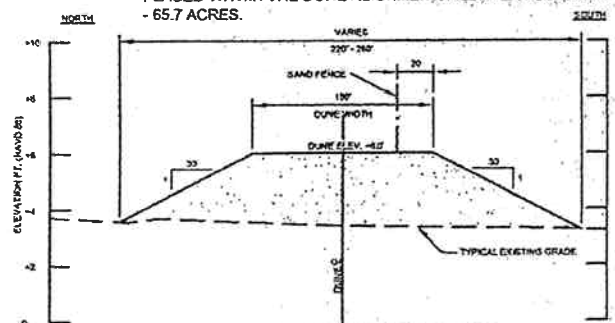
NOTE: APPROXIMATELY 49,000 C.Y. OF MATERIAL TO BE EXCAVATED BY BUCKET DREDGE FOR CONSTRUCTION OF TIDAL CREEKS AND PONDS. EXCAVATION FOOTPRINT - 10.3 ACRES. FILL AREA FOOTPRINT INCLUDED IN MARSH FILL QUANTITIES.



TYPICAL TIDAL POND SECTION ④

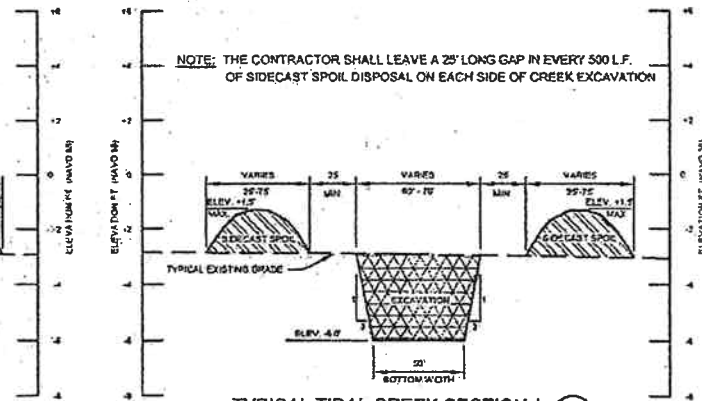
SCALE: HORIZ 1"=100'
VERT 1"=4'

NOTE: APPROXIMATELY 225,000 C.Y. (IN-PLACE VOLUME) OF MATERIAL TO BE EXCAVATED FROM BORROW AREA 2a TO BE PLACED WITHIN THE DUNE ALIGNMENT. FILL AREA FOOTPRINT - 65.7 ACRES.



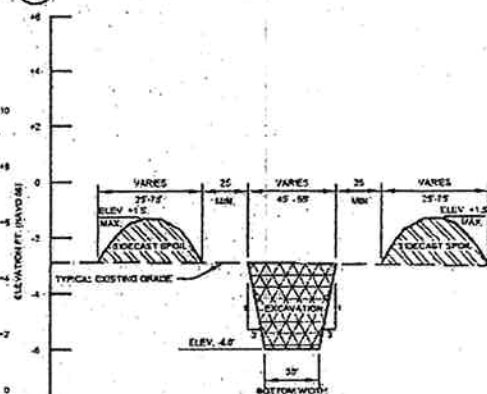
TYPICAL DUNE SECTION ⑤

SCALE: HORIZ 1"=100'
VERT 1"=4'



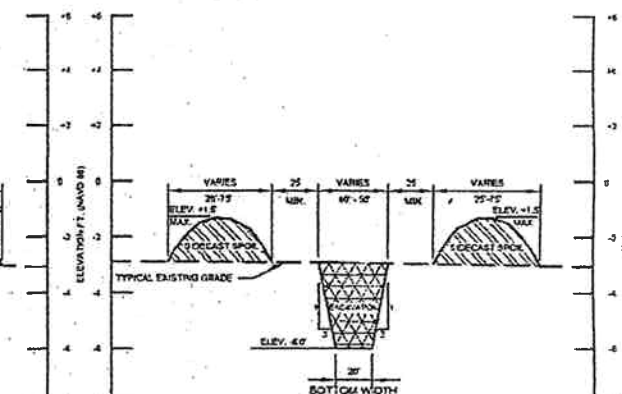
TYPICAL TIDAL CREEK SECTION 1 ①

SCALE: HORIZ 1"=100'
VERT 1"=4'



TYPICAL TIDAL CREEK SECTION 2 ②

SCALE: HORIZ 1"=100'
VERT 1"=4'

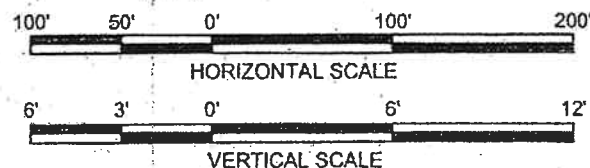


TYPICAL TIDAL CREEK SECTION 3 ③

SCALE: HORIZ 1"=100'
VERT 1"=4'

T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

M.L.W. = 0.0' NAVD88
M.S.L. = 0.86' NAVD88
M.H.W. = 1.6' NAVD88



APPLICATION BY:
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
2000 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

TYPICAL CROSS SECTIONS
SHEET 1 OF 2

DRAWN BY: KSP

DESIGNED BY: KPR

APPROVED BY: KPR

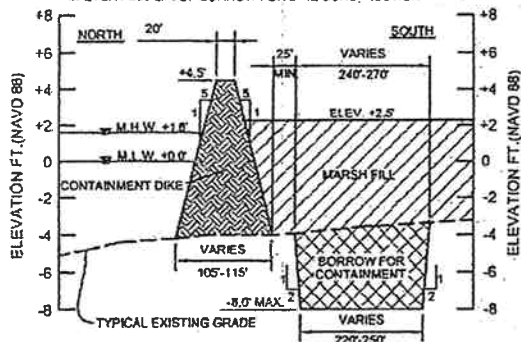
STATE PROJECT NUMBER: 2511-05-09

DATE: 3/30/09

FEDERAL PROJECT NUMBER: TE-50

SHEET 5 OF 13

NOTE: THE CONTRACTOR SHALL LEAVE A 25' LONG PLUG OF UNDISTURBED MATERIAL IN EVERY 500 L.F. OF BORROW FOR DIKE CONSTRUCTION



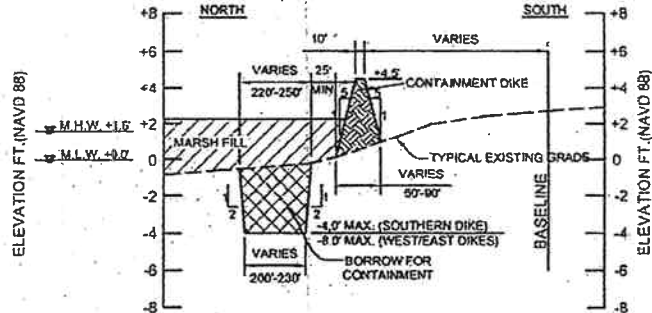
TYPICAL PRIMARY CONTAINMENT DIKE SECTION ①

SCALE: HORIZ 1"=200'
VERT 1"=10'

105'-115'

NOTE: APPROXIMATELY 167,000 C.Y. OF MATERIAL TO BE EXCAVATED BY BUCKET DREDGE FOR CONSTRUCTION OF PRIMARY AND SECONDARY CONTAINMENT DIKES. EXCAVATION FOOTPRINT - 35.0 ACRES. CONTAINMENT DIKE FOOTPRINT - 31.0 ACRES. BORROW AREA FOR CONTAINMENT DIKES WILL BE REFILLED WITH HYDRAULICALLY PLACED MATERIAL FROM BORROW AREA 2a. CONTAINMENT DIKES TO BE DEGRADED TO MARSH PLATFORM ELEVATION PRIOR TO DEMOBILIZATION

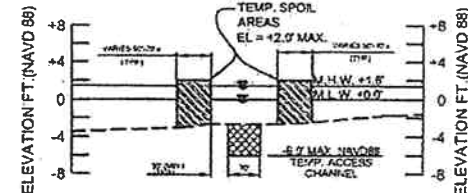
NOTE: THE CONTRACTOR SHALL LEAVE A 25' LONG PLUG OF UNDISTURBED MATERIAL IN EVERY 500 L.F. OF BORROW FOR DIKE CONSTRUCTION



TYPICAL SECONDARY CONTAINMENT DIKE SECTION ②

SCALE: HORIZ 1"=200'
VERT 1"=10'

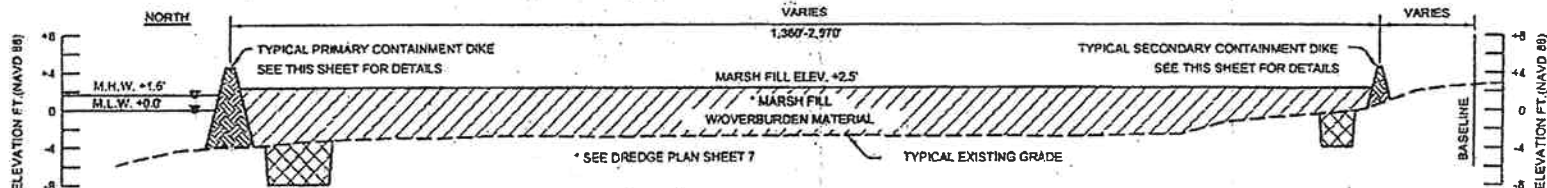
NOTE: TEMPORARY SPOIL FOR ACCESS CHANNELS SHALL BE BACKFILLED INTO THE FLOTATION CHANNEL PRIOR TO DEMOBILIZATION



PRIMARY ACCESS CHANNEL ④

SCALE: HORIZ 1"=400'
VERT 1"=20'

NOTE: APPROXIMATELY 29,550 C.Y. EXCAVATED BY BUCKET DREDGING FOR PROJECT ACCESS. EXCAVATION FOOTPRINT - 5.4 ACRES. TEMPORARY SPOIL PLACEMENT FOOTPRINT - 5.4 ACRES.



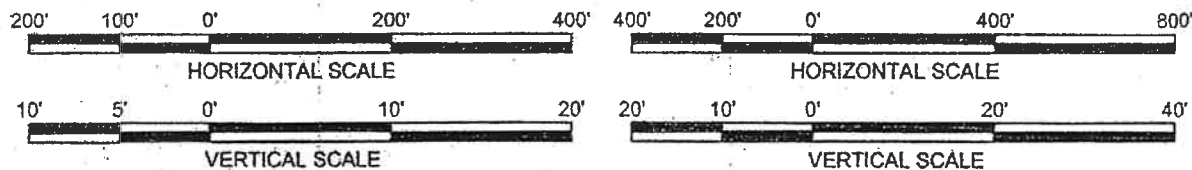
NOTE: APPROXIMATELY 2,300,000 C.Y. (IN-PLACE VOLUME) OF MATERIAL TO BE PLACED IN MARSH FILL AREA FOR MARSH CREATION. MATERIAL TO BE DREDGED FROM BORROW AREA 2a. FILL AREA FOOTPRINT - 316.0 ACRES.

TYPICAL MARSH FILL SECTION ③

SCALE: HORIZ 1"=400'
VERT 1"=20'

NOTE: CONTRACTOR TO BREACH AN APPROXIMATE 70' WIDE SECTION OF THE CONTAINMENT DIKE CENTERING THE BREACH ON EACH CREEK OPENING. ONLY THE CROWN SECTION OF THE CONTAINMENT DIKE SHALL BE BREACHED. REMOVE MATERIAL FROM THE CROWN OF THE DIKE TO ELEVATION OF +1.0 NAVD88. PLACE THE REMOVED MATERIAL WITHIN THE MARSH PLATFORM TEMPLATE AND SPREAD OUTSIDE OF THE FOOTPRINT OF THE CREEK EXCAVATION

T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363



M.L.W. = 0.0' NAVD88
M.S.L. = 0.86' NAVD88
M.H.W. = 1.5' NAVD88

APPLICATION BY:

LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
2000 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

TYPICAL CROSS SECTIONS
SHEET 2 OF 2

STATE PROJECT NUMBER: 2511-05-09

DATE: 3/30/09

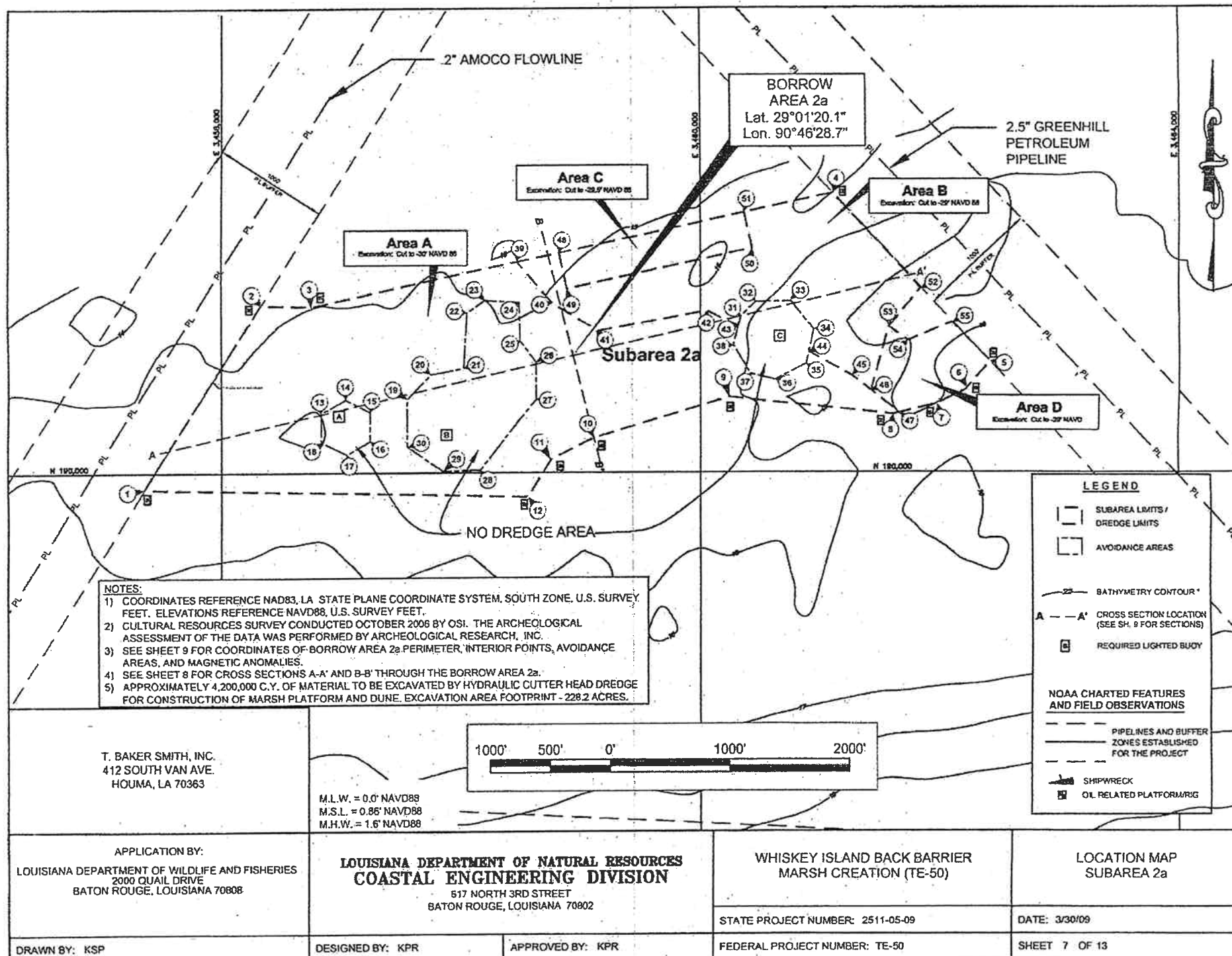
DRAWN BY: KSP

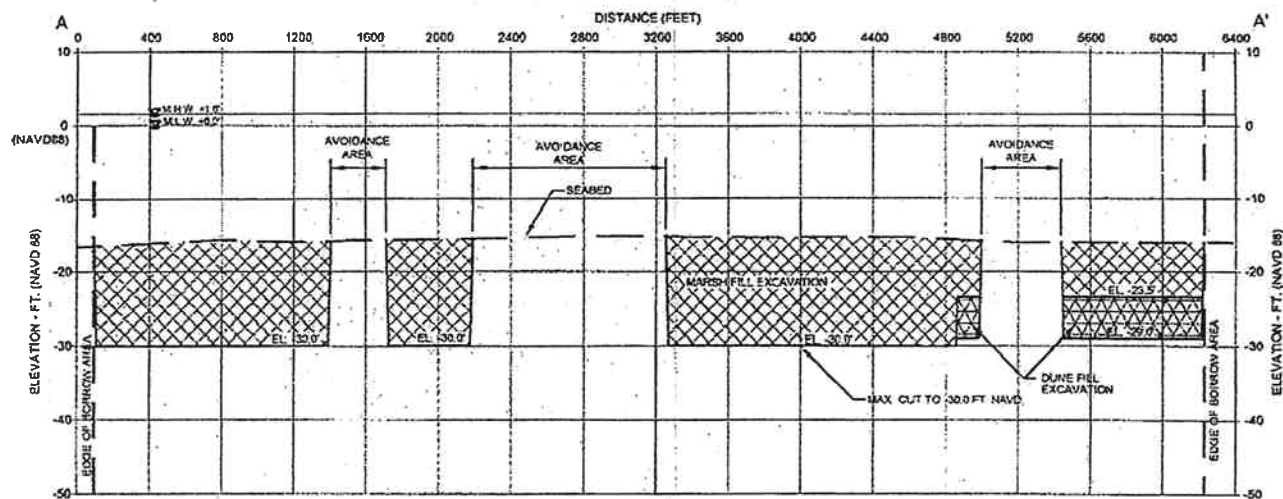
DESIGNED BY: KPR

APPROVED BY: KPR

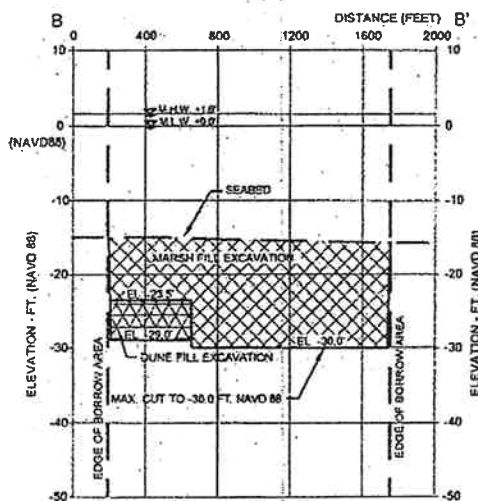
FEDERAL PROJECT NUMBER: TE-50

SHEET 6 OF 13





SECTION A-A'
SCALE: HORIZ 1"=1000'
VERT 1"=30'



SECTION B-B'
SCALE: HORIZ 1"=1000'
VERT 1"=30'

T. BAKER SMITH, INC.
412 SOUTH VAN AVE.
HOUMA, LA 70363

M.L.W. = 0.0' NAVD88
M.S.L. = 0.86' NAVD88
M.H.W. = 1.6' NAVD88

APPLICATION BY:
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
2000 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

**LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION**
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

BORROW AREA
TYPICAL CROSS SECTIONS

DRAWN BY: KSP

DESIGNED BY: KPR

APPROVED BY: KPR

STATE PROJECT NUMBER: 2511-05-09

DATE: 3/30/09

FEDERAL PROJECT NUMBER: TE-50

SHEET 8 OF 13

DREDGE AREA 2a PERIMETER POINTS (NAD83)		
POINT #	X	Y
1	3456326.097	191383.084
2	3456343.223	191399.993
3	3456747.155	191368.981
4	3461106.856	192299.849
5	3462416.556	190910.800
6	3462221.123	190691.767
7	3461971.324	190564.289
8	3461604.253	190477.904
9	3460242.418	190615.701
10	3458645.561	190222.581
11	3458748.908	190103.055
12	3458560.691	189805.449

DREDGE AREA 2a INTERIOR POINTS (NAD83)		
POINT #	X	Y
39	3458468.56	191739.85
40	3458782.39	191402.18
41	3459144.06	191173.71
42	3460052.59	191338.21
43	3460314.14	191211.86
44	3460898.82	190997.05
45	3461263.95	190797.68
46	3461419.96	190676.30
47	3461683.25	190492.03
48	3458818.83	191810.73
49	3458883.34	191517.78
50	3460431.54	191845.67
51	3460363.89	192148.09
52	3461832.05	191517.57
53	3461568.31	191205.24
54	3461727.64	191089.59
55	3462095.79	191242.26

DREDGE AREA 2a AVOIDANCE AREA A (NAD83)		
POINT #	X	Y
13	3456827.537	190488.259
14	3457033.464	190505.488
15	3457239.391	190498.803
16	3457237.530	190257.521
17	3457044.829	190147.114
18	3456930.018	190250.078

DREDGE AREA 2a AVOIDANCE AREA B (NAD83)		
POINT #	X	Y
19	3457548.444	190605.178
20	3457745.183	190809.787
21	3458021.354	190865.552
22	3458050.000	191324.891
23	3458198.708	191426.221
24	3458486.982	191409.886
25	3458496.156	191088.721
26	3458927.791	190911.321
27	3458927.791	190508.103
28	3458158.660	190018.820
29	3457848.612	190011.588
30	3457549.588	190209.451

DREDGE AREA 2a AVOIDANCE AREA C (NAD83)		
POINT #	X	Y
31	3460335.115	191292.655
32	3460462.766	191411.470
33	3460750.078	191416.790
34	3460939.826	191184.481
35	3460877.759	190900.748
36	3460820.624	190767.745
37	3460416.689	190815.625
38	3460274.821	191051.480

ACCESS ROUTE & TEMP. CHANNEL (NAD83)		
POINT #	X	Y
13	3459937.58	202493.97
14	3459992.51	202187.09
15	3459015.40	202100.84
16	3459960.46	202427.82
17	3441750.50	201918.48
18	3441818.25	201842.53
19	3441705.32	202219.50
20	3441849.05	202195.91
21	3439995.02	200312.89
22	3437051.33	200271.11
23	3438270.63	201804.42
24	3438208.40	201938.06

DUNE FILL CENTERLINE COORDINATES (NAD83)				
POINT #	X	Y	STATION	BEARING TO NEXT PT
1	3437781.726	198252.125	200+00.00	S 59°37'57" E
2	3438202.585	199011.400	204+78.17	S 73°53'52" E
3	3439135.822	198741.990	214+47.54	S 81°40'45" E
4	3439990.172	198617.037	223+10.98	N 87°39'21" E
5	3444553.389	198807.925	268+78.10	N 82°20'13" E
6	3445721.453	198951.032	280+55.79	N 65°13'02" E
7	3447132.513	199503.161	296+10.09	N 53°08'48" E
8	3447888.645	200170.530	305+55.34	N 49°25'57" E
9	3448723.156	200884.972	316+53.90	N 43°26'10" E
10	3449691.026	201907.172	330+61.61	N/A

CREEK AND POND COORDINATES (NAD83)					
POINT #	X (BEGIN)	Y (BEGIN)	CHORD BEARING TO NEXT PT.	CHORD LENGTH	RADIUS (FEET)
20	3441782.44	201932.05	S 30°39'41" E	43.6	TANGENT
21	3441807.24	201890.25	S 35°06'30" E	295.3	208.3
22	3441977.06	201648.70	S 50°04'00" E	160.2	174.1
23	3441532.20	201225.27	N 72°00'05" E	252.2	151.2
24	3441772.08	201303.18	N 56°46'41" E	255.5	266.7
25	3443089.38	200933.85	N 63°50'08" W	544.8	453.4
26	3442600.57	201173.99	N 72°27'13" W	470.4	367.2
27	3442104.59	201425.99	N/A	N/A	120.0
28	3443125.49	202303.31	S 32°28'19" E	51.6	TANGENT
29	3443153.19	202349.74	S 30°46'06" E	172.4	115.5
30	3443241.55	202201.81	S 34°51'40" E	233.9	207.4
31	3442844.79	201728.99	N 89°50'58" E	270.5	179.9
32	3443098.77	201822.19	N 78°15'08" E	230.5	172.1
33	3443547.97	201859.12	S 63°47'17" E	365.0	232.0
34	3443875.45	201697.90	S 65°44'55" E	430.2	349.6
35	3444174.42	200873.31	N 18°20'53" E	900.0	446.8
36	3444824.89	201892.93	S 47°33'58" W	506.6	445.9
37	3445060.69	200483.88	N 34°12'25" W	560.9	625.1
38	3444745.39	200947.70	N 35°43'09" W	515.1	429.3
39	3443438.13	201907.44	N/A	N/A	120.0
40	3444371.63	201481.14	N/A	N/A	120.0

PRIMARY & SECONDARY CONTAINMENT DIKE POINTS (NAD83)		
POINT #	X	Y
1	3439977.136	200848.958
2	3441018.939	201651.320
3	3442859.651	202324.055
4	3444258.786	202881.321
5	3444806.532	202259.604
6	3445586.168	202239.227
7	3445351.028	201480.532
8	3445552.662	200628.272
9	3446219.075	200210.496
10	3445218.373	200218.844
11	3444182.815	199888.519
12	3443905.831	199575.019
13	3442224.581	199497.894
14	3441193.331	199456.227
15	3440026.737	199330.005
16	3439897.495	19912.012
17	3439689.343	200089.778
18	3439631.525	200256.506
19	3439795.486	200355.204

T. BAKER SMITH, INC.
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APPLICATION BY:
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2000 QUAIL DRIVE
BATON ROUGE, LOUISIANA 70808

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

PROJECT COORDINATE
TABLES

DRAWN BY: KSP

DESIGNED BY: KPR

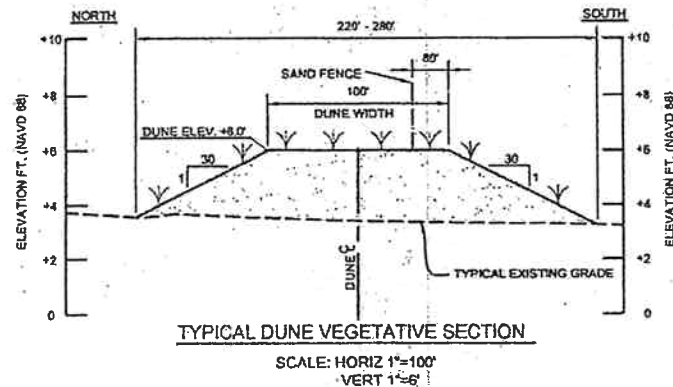
APPROVED BY: KPR

STATE PROJECT NUMBER: 2511-05-09

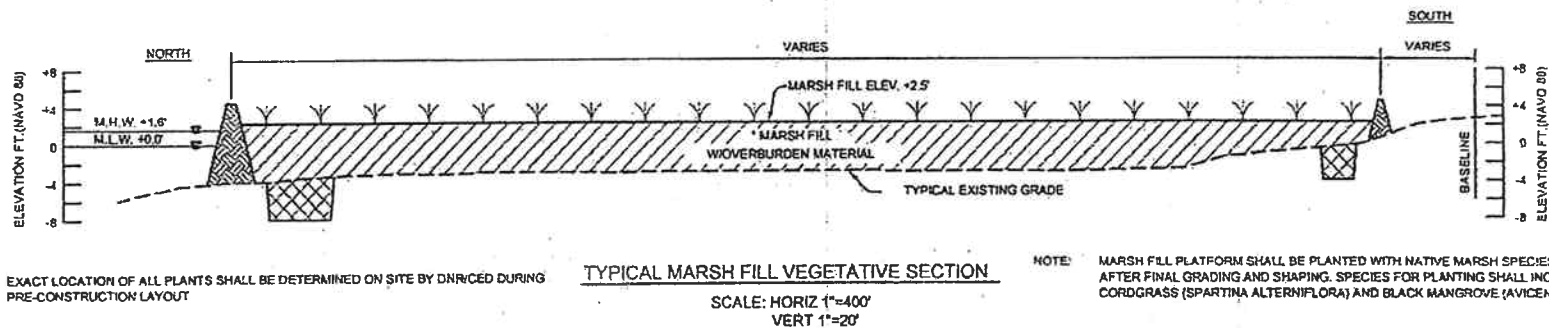
DATE: 3/30/09

FEDERAL PROJECT NUMBER: TE-50

SHEET 9 OF 13



NOTE: DUNE PLATFORM SHALL BE PLANTED WITH NATIVE DUNE AND MARSH SPECIES OF LOUISIANA ECOTYPE AFTER FINAL GRADING AND SHAPING. SPECIES FOR PLANTING SHALL INCLUDE BITTER PANICUM (*Panicum amarum* var. *amarum*), SEA OATS (*Uniola paniculata*) AND SEACOAST BLUESTEM (*Schizachyrium maritimum*).

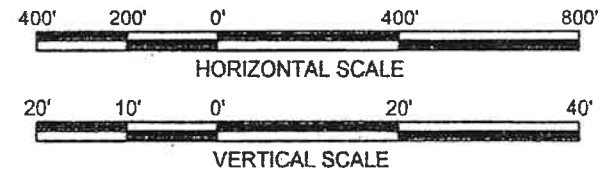
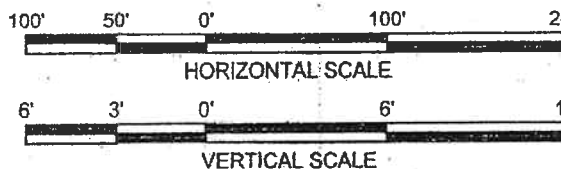


NOTE: EXACT LOCATION OF ALL PLANTS SHALL BE DETERMINED ON SITE BY DNR/CED DURING PRE-CONSTRUCTION LAYOUT

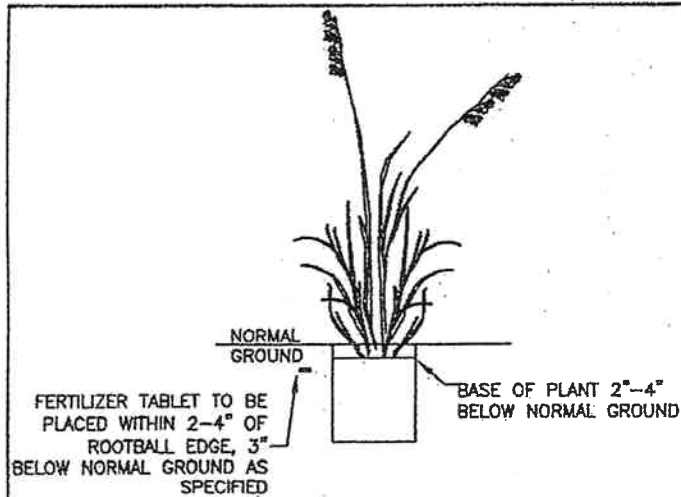
NOTE: MARSH FILL PLATFORM SHALL BE PLANTED WITH NATIVE MARSH SPECIES OF LOUISIANA ECOTYPE AFTER FINAL GRADING AND SHAPING. SPECIES FOR PLANTING SHALL INCLUDE SMOOTH CORDGRASS (*Spartina alterniflora*) AND BLACK MANGROVE (*Avicennia germinans*).

T. BAKER SMITH, INC.
 412 SOUTH VAN AVE.
 HOUMA, LA 70363

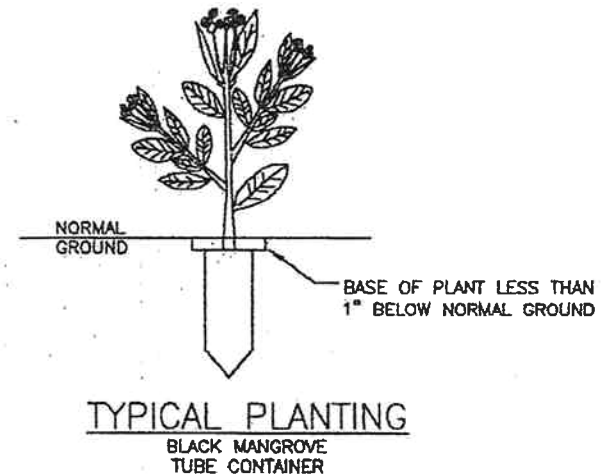
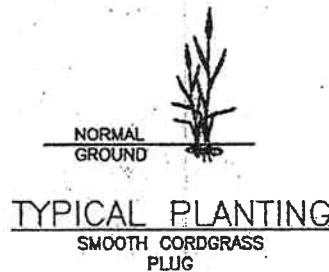
M.L.W. = 0.0' NAVD88
 M.S.L. = 0.86' NAVD88
 M.H.W. = 1.6' NAVD88



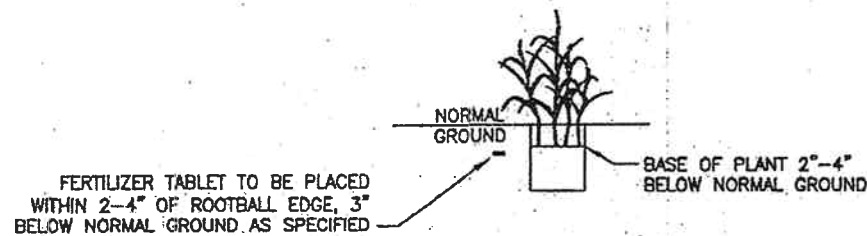
APPLICATION BY: LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES 2000 QUAIL DRIVE BATON ROUGE, LOUISIANA 70808	LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50) STATE PROJECT NUMBER: 2511-05-09 FEDERAL PROJECT NUMBER: TE-50	VEGETATIVE SECTION LAYOUT DATE: 3/30/09 SHEET 11 OF 13
DRAWN BY: KSP	DESIGNED BY: KPR	APPROVED BY: KPR	



TYPICAL PLANTING
SEA OATS
GALLON CONTAINER



TYPICAL PLANTING
BLACK MANGROVE
TUBE CONTAINER



TYPICAL PLANTING
BITTER PANICUM, SEACOAST BLUESTEM
4" CONTAINER

NOTES:

1. EXACT LOCATION OF ALL PLANTS SHALL BE DETERMINED ON SITE BY DNR/CED DURING PRE-CONSTRUCTION LAYOUT.
2. THE TOP OF THE BLACK MANGROVE AND SMOOTH CORDGRASS ROOT MEDIA SHALL BE PLACED ONE INCH BELOW NORMAL GROUND. THE SEA OATS, SEACOAST BLUESTEM AND BITTER PANICUM ROOT MEDIA SHALL BE PLANTED A MINIMUM OF 4" BELOW NORMAL GROUND.
3. ONE FERTILIZER TABLET SHALL BE PLACED WITHIN TWO (2) TO FOUR (4) INCHES OF THE SIDE OF EACH PLANT SPECIFIED.
4. ALL DISTANCE MEASUREMENTS SHOWN ON THE PLANS ARE APPROXIMATE.
5. NO EQUIPMENT MAY ALTER THE EXISTING CONDITIONS OF THE ISLAND OR DISTURB EXISTING VEGETATION.
6. CONTAINMENT DIKE NOT MAINTAINED AND IS SUBJECT TO DEGRADATION.

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COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

VEGETATIVE GENERAL
NOTES

STATE PROJECT NUMBER: 2511-05-08

DATE: 3/30/09

DRAWN BY: KSP

DESIGNED BY: KPR

APPROVED BY: KPR

FEDERAL PROJECT NUMBER: TE-50

SHEET 12 OF 13

	VOLUME (CY)	ACREAGE (Acres)
BORROW AREA 2a EXCAVATION	4,200,000	228.2
CONTAINMENT DIKE EXCAVATION	167,000	35.0
TIDAL CREEK & POND EXCAVATION	49,000	10.3
TEMPORARY ACCESS ROUTE EXCAVATION	29,550	5.4

NOTE: VOLUMES ARE CALCULATED TO THE MAXIMUM DEPTH OF EQUIPMENT

	VOLUME (CY)	ACREAGE (Acres)
MARSH FILL (IN-PLACE)	2,300,000	316.0
DUNE FILL (IN-PLACE)	225,000	65.7

NOTES:

1. TEMPORARY SPOIL FOR ACCESS CHANNELS SHALL BE BACKFILLED INTO THE FLOTATION CHANNEL PRIOR TO DEMOBILIZATION.
2. EXCAVATED AREAS FOR CONTAINMENT DIKE CONSTRUCTION AND TIDAL CREEKS AND PONDS WILL BE REFILLED WITH HYDRAULICALLY PLACED MATERIAL FROM BORROW AREA 2a DURING CONSTRUCTION OF THE MARSH PLATFORM.
3. THE BORROW AREA 2a VOLUME EXCEEDS THE FILL VOLUME TO ACCOUNT FOR THE FOLLOWING:
 - a. WHEN FINE-GRAINED MATERIAL IS DREDGED, LOSSES TYPICALLY OCCUR DURING TRANSPORT, PLACEMENT, AND DEWATERING. ASSUMED CUT-TO-FILL RATIO FOR THE MARSH FILL IS 1.2:1; ASSUMED CUT-TO-FILL RATIO FOR THE DUNE FILL IS 1.6:1. AVAILABLE BORROW AREA VOLUMES CONSIDERS VARIATIONS IN THE CUT-TO-FILL RATIOS.
 - b. POTENTIAL DIFFERING SITE CONDITIONS PRIOR TO CONSTRUCTION THAT WOULD RESULT IN MINOR VARIATIONS IN FILL VOLUME NEEDS.

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COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

GENERAL NOTES

STATE PROJECT NUMBER: 2511-05-09

DATE: 3/30/09

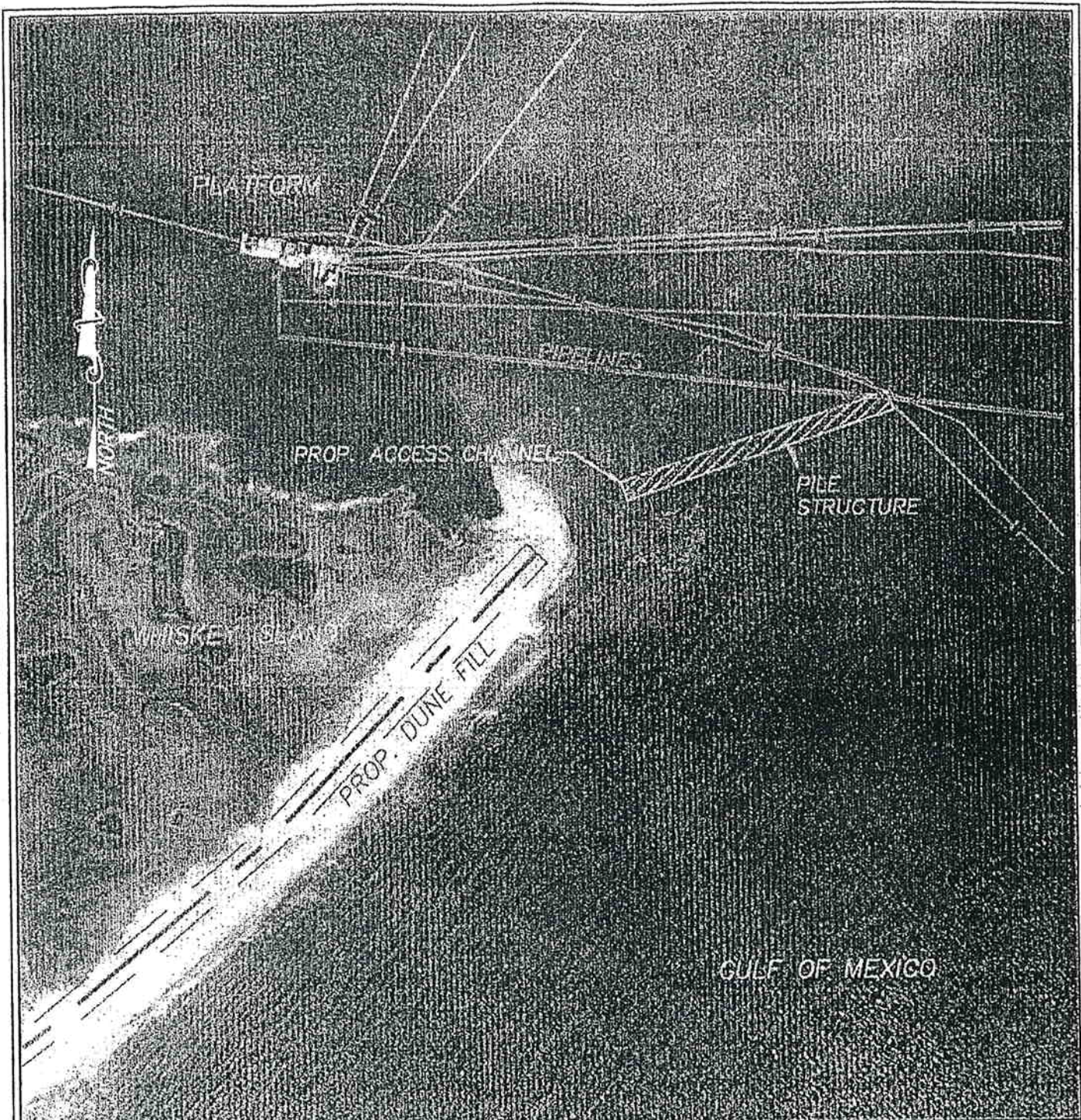
DRAWN BY: KSP

DESIGNED BY: KPR

APPROVED BY: KPR

FEDERAL PROJECT NUMBER: TE-50

SHEET 13 OF 13



REVISED BY:

DATE:

WHISKEY ISLAND BACK BARRIER MARSH CREATION PROJECT (TE-50)

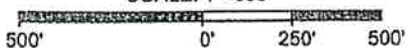
DETAIL MAP

PROPOSED ACCESS CHANNEL

PLAN VIEW

TERREBONNE PARISH, LA.

PLAN SCALE
SCALE: 1"=500'



DATE: 02/28/09

JOB# 2091010

FILE: ACCESS DETAIL.DWG

SHEET: 1 OF 1

Point Table			
Point #	Elevation	Northing	Easting
1	-6.000	200312.6887	3436995.0185
2	-6.000	200271.1052	3437051.3296
3	-6.000	201904.4164	3438270.6283
4	-6.000	201938.0760	3438208.4019



CAILLOU BOCA

PROPOSED
ALTERNATE
ACCESS
70' X 2,527'

Caillou Boca Daybeacon 5

WHISKEY ISLAND

NOTE:

NO MAGNETIC ANOMALIES
DETECTED ALONG ROUTE.

APPROXIMATELY 22,303 CU. YDS.
TO BE REMOVED WITHIN ACCESS
CHANNEL.

REVISED BY:

DATE:

PLAN SCALE
SCALE: 1"=500'

500' 0' 250' 500'

**WHISKEY ISLAND BACK BARRIER
MARSH CREATION PROJECT (TE-50)
HYDROGRAPHIC AND MAGNETOMETER SURVEY
PROPOSED ALTERNATE ACCESS CHANNEL**

**PLAN VIEW
TERREBONNE PARISH, LA.**

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 406 N. WILSON AVE. KAPLAN, LA. 70548

DATE: 02/28/09

JOB# 2091010

FILE: ACCESS DETAIL.DWG

SHEET: 1 OF 1

BOBBY JINDAL
GOVERNOR



SCOTT A. ANGELLE
SECRETARY

State of Louisiana
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL RESTORATION AND MANAGEMENT

April 14, 2009

Kristi Cantu
Louisiana Dept. Natural Resources
Coastal Engineering Division
P. O. Box 44027
Baton Rouge, LA 70804

RE: **C20070623**, Coastal Zone Consistency Modification
USEPA/LDWF
Direct Federal Action
Whiskey Island Back Barrier Island Marsh Creation CWPPRA Project (TE-50); modification
for an alternate access channel, **Terrebonne Parish, Louisiana.**

Dear Ms. Cantu:

The above referenced project modification has been reviewed for consistency with the approved Louisiana Coastal Resource Program (LCRP) as required by Section 307 of the Coastal Zone Management Act of 1972, as amended. The modification, as proposed in the application, is consistent with the LCRP.

If you have any questions concerning this determination please contact Brian Marcks of the Consistency Section at (225) 342-7949.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Gregory J. DuCote".

Gregory J. DuCote
Acting Administrator
Interagency Affairs/Field Services Division

GJD/JH/bgm

cc: Tim Landers, USEPA
Brandt Savoie, LDWF
Pete Serio, COE-NOD
Rod Pierce, CMD FI
James Miller, Terrebonne Parish

Coastal Management Division • Post Office Box 44487 • Baton Rouge, Louisiana 70804-4487
(225) 342-7591 • Fax (225) 342-9439 • <http://www.dnr.state.la.us>
An Equal Opportunity Employer

SPECIAL CONDITIONS: MVN 2008-226-CY

7. The permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.
8. The permittee must install and maintain, at the permittee's expense, any safety lights, signs, and signals prescribed by the US Coast Guard, through regulations or otherwise, on the permittee's authorized facilities.
9. If the proposed project, or future maintenance work, involves the use of floating construction equipment (barge mounted cranes, barge mounted pile driving equipment, floating dredge equipment, dredge discharge pipelines, etc.,) in the waterway, you are advised to notify the US Coast Guard so that a Notice to Mariners, if required, may be prepared. Notification, with a copy of your permit approval and drawings, should be mailed to the US Coast Guard, Sector New Orleans Command Center, 201 Hammond Highway, Metairie, Louisiana 70005, about 1 month before you plan to start work. Telephone inquiries can be directed to (504) 846-5923.
10. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
11. The permittee shall limit dredge and fill activities to areas essential to the project. If the proposed project requires any additional work not expressly permitted herein, the permittee must apply for an amendment to this authorization prior to commencement of work.
12. Maintenance dredging, including dredging for material to maintain project features authorized herein, is approved for a period of ten (10) years from the date of permit issuance. Maintenance operations shall not exceed specifications as shown on the permit drawings without prior approval from the US Army Corps of Engineers, New Orleans District (CEMVN) Regulatory Branch.
13. The Chitimacha Tribe of Louisiana has stated that the project area is part of the aboriginal Chitimacha homelands. If during the course of work at the site, prehistoric and/or historic aboriginal cultural materials are discovered, the permittee will contact the Chitimacha Tribe of Louisiana at P.O. Box 661, Charenton, LA 70523, and the CEMVN Regulatory Branch. CEMVN will initiate the required federal, state, and Tribal coordination to determine the significance of the cultural materials and the need, if applicable, for additional cultural resource investigations.

Appendix B

- **Pre-Construction Conference Report**

PRE-CONSTRUCTION CONFERENCE REPORT MEETING MINUTES

DATE: March 2, 2009
TIME: 10:00 a.m.

PROJECT NAME: WHISKEY ISLAND BACK BARRIER MARCH CREATION PROJECT

LDNR PROJECT NO. TE-50

TBS PROJECT NO. 2009.0105

1. INTRODUCTION

- A. Attendees (Introduction)
- B. Brief description of "Scope of Project"
- C. Contact Personnel for the project:

2. OWNER Louisiana Department of Natural Resources

	NAME	PHONE #	EMERGENCY #
PROJECT MANAGER	Daniel Dearmond	985-449-5103	985-446-5722
FIELD REP.	N/A	N/A	N/A

3. ENGINEER T. BAKER SMITH, INC

	NAME	PHONE #	EMERGENCY #
PROJECT MANAGER	Philip Chauvin	985-223-9228	985-790-0587
PROJECT ENGINEER	Kevin Rizzo	985-223-9231	985-790-1290
PROJECT REP.	Dale Pellegrin	985-868-1050	985-790-0741
PROJECT REP.	Mike Kay	985-868-1050	985-852-7084

4. CONTRACTOR WEEKS MARINE, INC.

	NAME	PHONE #	EMERGENCY #
OPERATIONS MANAGER	Charles Granger	985-875-2500	985-237-5057
PROJECT MANAGER	Gary Johnson	Dredge # 985-237-5014	985-237-5026
BACK-UP PROJECT MGR	Paul Stewart	Dredge # 985-237-5014	985-373-8352
PROJECT SUPERINT.	Frank Gill	Dredge # 985-237-5014	985-237-5022
DREDGE CAPTAIN	Frank Gill	Dredge # 985-237-5014	985-237-5022
DREDGE CAPTAIN	Wade Thomassee	Dredge # 985-237-5014	985-630-2238
PROJECT ENGINEER & CQC SYST MANAGER	Ricky Audibert	Dredge # 985-237-5014	985-237-9677
PROJECT ENGINEER & ALT CQC SYST MGR	Chad Bragg	Dredge # 985-237-5014	985-630-8760
BUCKET DREDGE	Jerry DeVille	985-851-3191	985-991-9047

5. CONSTRUCTION AGREEMENT

- | | | |
|----------------------------------|------------------|------------------|
| A. Executed and Recorded | <u> X </u> Yes | <u> </u> No |
| B. Copies Distributed | <u> X </u> Yes | <u> </u> No |
| C. Payment and Performance Bonds | <u> X </u> Yes | <u> </u> No |

6. INSURANCE

- | | | |
|--|------------------|------------------|
| A. Contractual Liability - Certificate Received | <u> X </u> Yes | <u> </u> No |
| B. Builder's Risk - Certificate Received | <u> X </u> Yes | <u> </u> No |
| C. Owner's/Engineer's Protective
Liability - Certificate Received | <u> X </u> Yes | <u> </u> No |

Remarks: No remarks to report on

7. SUBCONTRACTORS

- | | | | |
|---------------------------------|-----------------------|---------------------|----------------------|
| A. Subcontractors List Received | <u> </u> Yes | <u> </u> X | <u> </u> No |
| B. List Approved | <u> </u> Yes | <u> </u> X | <u> </u> No |
| C. Contracts Received | <u> </u> Yes | <u> </u> X | <u> </u> No |

Remarks: Weeks Marine intends to do all work with its own forces. If during the course of the project subcontract labor is required, Weeks to submit necessary information.

8. PAYROLLS AND LABOR STANDARDS

- A. Certifications Reviewed _____ Yes _____ X _____ No
- B. Wage Rates and Rosters Distributed _____ Yes _____ X _____ No
- C. Payrolls to be submitted to: N/A _____ Name _____.
- D. Will job interviews be required _____ Yes _____ X _____ No

Remarks: N/A

9. PROGRESS SCHEDULES

- A. Time of Complete Project. 270 Calendar Days
- B. Amount of liquidated damages. \$2,450 per calendar day
- C. Bar Chart received. X Yes No
- D. Does Contractor expect any unavoidable delays in completing the project on time? Yes X No
- If yes, explain:

Remarks: Mobilization date schedule for March 10, 2009

10. SHOP DRAWINGS

- A. Schedule of submittal received _____ Yes _____ X _____ No
If not, date due: April 10, 2009

B. Distribution of copies: Contractor will submit seven copies for review. Approved submittals will be distributed as follows:

Owner	2	(# of Copies)
EPA	1	(# of Copies)
Engineer	1	(# of Copies)
Contractor	3	(# of Copies)

- C. Has contractor been informed he must certify submittals before submission: Failure to comply will result in rejection of submittal.
- X Yes No

Remarks: _____

11. QUALITY CONTROL

- | | |
|-----------------------|----------------|
| A. System Manager | Name: _____ |
| | Phone #: _____ |
| Alter. System Manager | Name: _____ |
| | Phone #: _____ |
| System Inspector | Name: _____ |
| | Phone #: _____ |
| System Inspector | Name: _____ |
| | Phone #: _____ |
| System Inspector | Name: _____ |
| | Phone #: _____ |

Name: Steve Chatry

 X Yes No

 X Yes No

(Burning, Dust Control, Sanitary Facilities, etc.)

_____ Yes _____ X _____ No

April 10, 2009

Remarks: Submitted directly to DNR, Daniel to forward copy to TBS

13. PROJECT SIGN

 Yes X No

N/A

Remarks: No remarks at this time

14. NOTICE TO PROCEED

 Yes X No

February 11, 2009

March 10, 2009

November 9, 2009

Remarks: Weeks to mobilize project by March 15, 2009

15. MONTHLY PAYMENT REQUESTS

 X Yes No

If not, due date:

 X Yes No

C. Pay request ending date will be: last day of the Month
(Day of Month)

A. Engineer	One (1) week
-------------	--------------

B. Owner

16. MISCELLANEOUS ITEMS

3 sets

Need Updated Work Plan as per GP-3

Submitted with work plan

D. GP-13 PROGRESS MEETINGS & REPORTS

Has a meeting date been established? _____ Yes _____ X _____ No
If not, due date: Meeting dates to be set once quarter boat mobilized on site

17. QUESTIONS AND ANSWERS

1) Bucket Dredge to mobilize by March 15, 2009 and start access canal excavation and primary and secondary dike installation. Equipment to be mobilized from the Houma yard.

2) Weeks to submit shop drawings on spill boxes, sand fencing, posts, silt curtain

3) Weeks submitted a sample of erosion control matting. Weeks to use a sample area for possible erosion control in lieu of plastic sheeting. Matting to be proposed is mid grade material, 2-sided matting Bio-degradable, pinned with re-bar by 8" lg.. Rolls 6' and 8' wide by 100' lg.

Potentially easier to retrieve than plastic sheeting. Material to be used only on the retention dikes.

Weeks to submit on erosion blankets to be used.

Manufacture claims that material will last approx 1 year.

Gary Johnson to have test/sample areas for matting/erosion control

TBS to supply Weeks with (2) two electronic copies of contract drawings for use as an aid in completing the project

4) Mike with LDWF to request onsite meeting prior to equipment mobilized beach

5) Access channel questions - proposed access channel on east end of island to be used, Weeks to investigate water depths by onsite survey personnel

6) Permit Modification applied for by DNR. Permit Modification set for point 20 extending out to the -6.0 contour Weeks work plan states access at point 28. Permit modification anticipated any day

7) Weeks asked if retention dike could be used as access point to reach beach. Weeks attempted to a mag survey of the east access channel. Several issues were raised by contractor associated with east access channel in the pass. One issue is existing timber structure located in proposed channel and two is that channel is perpendicular with wave action and current. Issue is access to island due to weather conditions.

8) Weeks asked if the access channel could be rotated toward the bay side of the project. Discussions were had about rotating the access channel toward the gulf side to access the project from the beach/gulf side.

9) Weeks to mag survey the area of the east access channel.

10) Weeks also proposed that the area from point 1 to point 15 be used as an access channel to get equipment onto the beach, the secondary dike would become a primary retention dike and be used as a roadway.

11) Mike Carloss with LDWF would favor access on the west side of the project due to nesting pelicans on the east end of the island.

12) Gary Johnson stated the material to be used in this area would not suitable for a roadway. Access for point 15 to beach is unknown at this time.

13) Existing timber structure in the pass was access point on a previous project. The structure was on the protected side of the island. The protected portion from previous project is now in open water.

14) Discussion about location of east access channel-could channel location be rotated or shifted. East access channel could be shifted to miss timber structure. If rotated to the north, several pipe lines are existing and would have to be crossed. If access channel rotated to the south, channel would be parallel with tidal flow and wave action. North of the existing timber structure are several pipelines. In addition, the area on the bay side is spit and is shallow. Problem will be having to re-dig the access channel due to silting in of access channel.

15) Weeks to do surveys of the area on the backside of the island and propose another alternate access channel to minimize the amount of excavation.

16) Weeks stated that the contract quantity of settlement plates are (2) short if alternate is awarded. Kevin Rizzo stated that the settlement plates in the alternate would not be required. (Weeks had plates fabricated)

17) Weeks stated that one settlement plate was located in the middle of a tidal creek and asked if it was the intent to have it located in the center of the tidal creek. Location of settlement plate between points 21 and 22 is intended to be in the middle of the tidal creek.

18) Settlement plates to be shot weekly as per specification, question is weather the plate or the cap be used to verify elevation. The top of cap can be used to verify elevation.

19) Weeks asked in what direction should the retention dikes be de-graded, to the inside or the outside. The retention dikes are to be de-graded (crown) towards the inside of the dikes as per specification.

20) Weeks asked about work distance requirement for nesting birds?

Specifications state that all work to be no less that 1500ft away from a nesting pelican. Mike Carloss stated the nesting birds will be on a wait and see in relation to nesting pelicans (unknown if pelicans will be nesting)

21) Mike Carloss with LDWF requested an onsite meeting prior to mobilizing equipment on the beach to discuss nesting birds and issues associated with them.

22) Question on borrow area- what was the fit to fill ratio on the borrow area? 1.2 to 1 on the marsh area and 1.6 to 1 on the dune fill

23) Weeks stated that their estimates were 2 to 1 on the dune fill based on the soil reports and 1.35 to 1 on the marsh fill area.

24) Weeks asked if there are any active oyster beds in the area? Mike Carloss stated that a few are in the area, but for the most part, No. As long as no construction activities take place with 1,500 feet from an active oyster lease, no concern exist.

25) What Geoid was used in the design of the project? Geoid99 was used as per appendix E as per specifications

26) Can monument TE-27-SM-01 be used? No, this monument no longer is recoverable.

27) Dredge point No. 1 on sheet 10 of 22 listed incorrect, revised point transmitted to field.

28) Grade Stakes in Marsh - requirement is every 500 lf spacing on every transect and at every transect (every 250 LF). Can the 250 lf requirement be waved to every other transect (500 lf) to be spaced evenly. Weeks intends to use plastic pipe to be moved with marsh buggies. Potential damage to grade stakes greater at 250 ft spacing than at 500 ft spacing. **-THIS REQUEST IS DENIED**

29) Can Weeks use an alternate grade stake than detailed on sheet 22 of 22? Yes, In addition, TS-10, page 45, paragraph 10.2, states that grade stakes to be 4" x 3' . The alternate grade stake proposed meets these requirements.

Appendix C

- **As-Built Volume Calculations**

Volume Report
Volume Placed in Dune Template

Station	Fill Area (Sq. Ft.)	Fill Volume (Cu. Yd.)	Cum. Fill Volume (Cu. Yd.)
---------	------------------------	--------------------------	----------------------------------

200+00	695.05	0.00	0.00
202+48	688.14	6,359.44	6,359.44
204+62	691.60	5,465.58	11,825.02
207+12	716.06	6,523.57	18,348.59
209+63	746.17	6,776.48	25,125.07
212+13	711.26	6,754.25	31,879.32
214+50	829.19	6,756.68	38,636.00
217+00	661.71	6,904.56	45,540.56
219+50	606.76	5,874.45	51,415.01
222+00	543.29	5,326.03	56,741.04
224+35	357.93	3,921.80	60,662.84
226+85	261.38	2,867.19	63,530.03
229+35	53.84	1,459.35	64,989.38
231+85	104.51	733.08	65,722.46
234+35	106.60	977.36	66,699.82
236+85	147.49	1,176.37	67,876.19
239+35	134.30	1,304.59	69,180.78
241+85	215.11	1,617.63	70,798.41
244+35	193.22	1,890.44	72,688.85
246+85	175.75	1,708.21	74,397.06
249+35	201.64	1,747.19	76,144.25
251+85	237.28	2,032.06	78,176.31
254+35	350.78	2,722.53	80,898.84
256+85	298.19	3,004.55	83,903.39
259+35	220.44	2,401.10	86,304.49
261+85	214.52	2,013.73	88,318.22
264+35	294.36	2,355.96	90,674.18

Station	Fill Area (Sq. Ft.)	Fill Volume (Cu. Yd.)	Cum. Fill Volume (Cu. Yd.)
---------	------------------------	--------------------------	----------------------------------

266+85	399.39	3,211.86	93,886.04
269+26	567.97	4,309.94	98,195.98
271+77	375.93	4,392.23	102,588.21
274.28	380.49	3,519.81	106,108.02
276.79	437.39	3,805.80	109,913.82
279.39	535.54	3,802.77	113,716.59
281.15	347.97	2,280.45	115,997.04
283.65	295.51	2,979.09	118,976.13
286.15	379.25	3,123.87	122,100.00
288.65	469.63	3,929.97	126,029.97
291.15	627.70	5,080.22	131,110.19
293.67	784.61	6,601.25	137,711.44
295.57	797.69	5,552.37	143,263.81
298.07	717.26	7,020.01	150,283.82
300.58	778.35	6,949.32	157,233.14
303.09	792.68	7,299.72	164,532.86
305.37	705.60	6,340.35	170,873.21
307.87	677.13	6,402.92	177,276.13
310.37	842.23	7,037.02	184,313.15
312.87	812.36	7,666.74	191,979.89
314.99	769.62	6,198.35	198,178.24
317.50	850.44	7,515.23	205,693.47
320.00	815.60	7,728.49	213,421.96
322.51	774.94	7,378.28	220,800.24
325+01	743.40	7,043.37	227,843.61
327+44	1,284.25	8,940.39	236,784.00

Total Volume of Dune Fill = 237,784 cy

Total Volume of Calculated Cut from Borrow Area = 524,839

524,839 / 236,784 = 2.22 pit to fill ratio

Total Volume Calculated Cut from Borrow Area for Marsh Fill = 2,409,040 CY

2,409,040 / 2,300,000 = 1.05 pit to fill ratio

Appendix D

- **As-Built Drawings**

PROJECT NO.	ENGINEERING CONTRACT NO.	PARISH	SHEET NO.
TE-50	2511-06-04	TERREBONNE	1

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	SUMMARY OF ESTIMATED QUANTITIES & GENERAL NOTES
3	LOCATION MAP
4	PROJECT LAYOUT
5	PLAN VIEW - TIDAL CREEKS AND PONDS
6-7	TYPICAL CROSS SECTIONS
8	DREDGE PLAN - SUBAREA 2a
9	DREDGE PLAN - SUBAREA 2a CROSS SECTIONS
10	PROJECT COORDINATE TABLES
11-20	PROJECT CROSS SECTIONS
21	SAND FENCE DETAILS
22	SETTLEMENT PLATE AND GRADE STAKE DETAILS

TYPE OF CONSTRUCTION

CLASSIFICATION III (HEAVY CONSTRUCTION)
HYDRAULIC DREDGING
CONTAINMENT LEVEES/STRUCTURES
CREEK / POND EXCAVATION

BENCHMARK: "TE-14-SM-01"

N: 199,323.20
E: 3,438,609.45
ELEV.: +2.29' NAVD

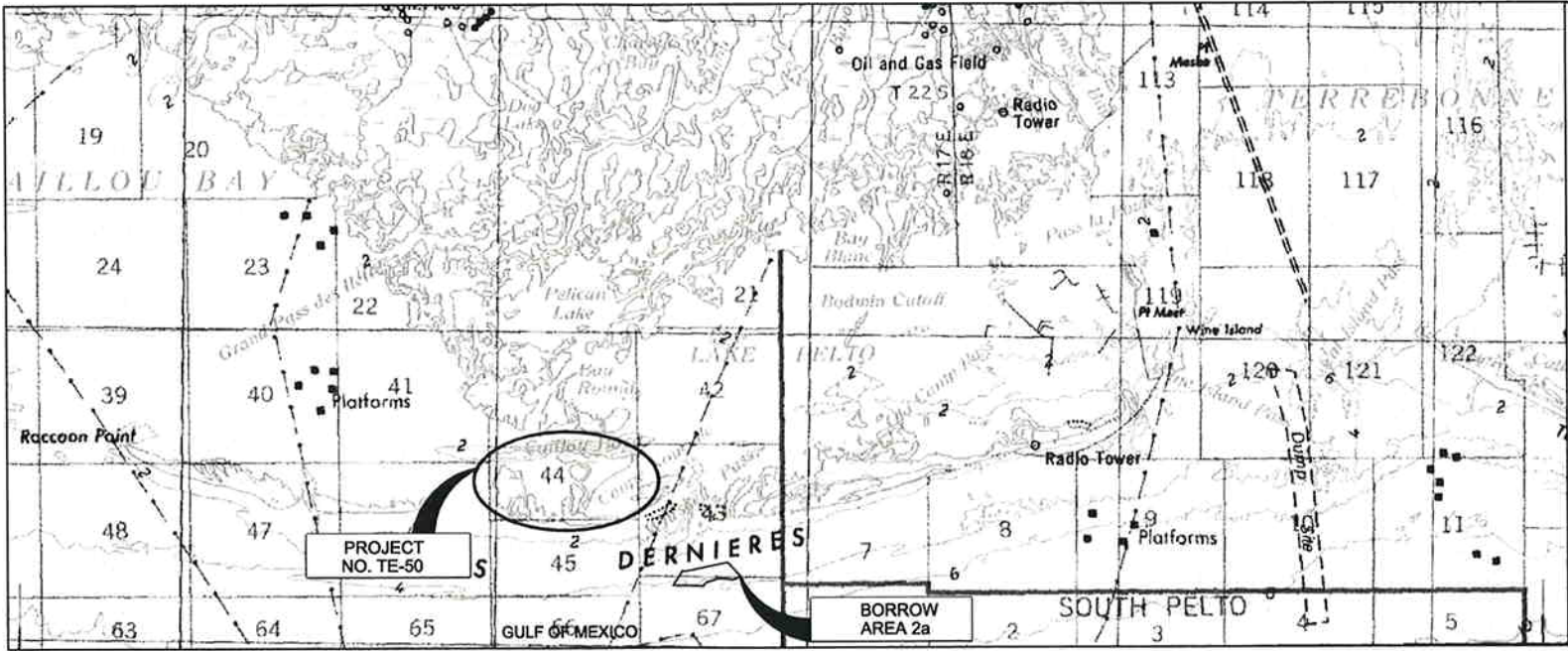
DATUM USED: VERTICAL - NAVD88, GEOID 03 MODEL, U.S. SURVEY FEET
HORIZONTAL - NAD83, LOUISIANA SOUTH ZONE, U.S. SURVEY FEET



STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

PLANS OF PROPOSED
WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

SEPTEMBER 2008
TERREBONNE PARISH



VICINITY MAP

20,000 10,000 0' 20,000 40,000



FEDERAL
PROJECT

STATE
PROJECT

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

TITLE PAGE

DATE: SEPTEMBER 2008

SHEET 1 OF 22

AS-BUILT

RECOMMENDED FOR APPROVAL

LDNR C.E.D. DIRECTOR

DATE

RECOMMENDED FOR APPROVAL

LDNR C.E.D. ENGINEER MANAGER

DATE

RECOMMENDED FOR APPROVAL

LDNR C.E.D. PROJECT ENGINEER

DATE

GENERAL NOTES

- 1) ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83), LOUISIANA STATE PLANE, SOUTH ZONE, U.S. SURVEY FEET. HORIZONTAL AND VERTICAL DATUM INFORMATION IS BASED ON POINT, "TE-14-SM-01". X = 3,438,609.45; Y = 199,323.20; ELEVATION = 2.29' (NAVD 88).
- 2) MEAN LOW WATER (MLW) EQUALS 0.0 FT., NAVD88, MEAN SEA LEVEL(MSL) EQUALS 0.86 FT., NAVD88, AND MEAN HIGH WATER(MHW) EQUALS 1.6 FT., NAVD88. TIDAL DATUMS ARE BASED ON RELATIONSHIP DEVELOPED AS PART OF THE SHIP SHOAL: WHISKY ISLAND WEST FLANK RESTORATIONS (TE-47) STUDY.
- 3) AERIALS IMAGES USED FOR PROJECT DRAWING BACKGROUNDS ARE EITHER 2005 DOQQ IMAGES OR 2006 AERIALS FLOWN FOR THIS PROJECT. SOURCE OF AERIAL IS NOTED ON EACH DRAWING.
- 4) OYSTER LEASES ARE IN THE VICINITY OF THE WORK. HOWEVER IT IS NOT ANTICIPATED THAT ANY WILL BE DIRECTLY AFFECTED BY THE WORK. THE CONTRACTOR SHALL NOT DREDGE OR DISTURB SEABEDS WITHIN THE LIMIT OF OYSTER LEASES SHOWN ON THE DRAWING AND NOT DIRECTLY AFFECTED BY THE WORK.
- 5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING SAFE ACCESS TO THE PROJECT AREA AND FOR NAVIGATING WITHIN THE AREA THROUGHOUT THE ENTIRE CONSTRUCTION PHASE. THE ENGINEER OR HIS REPRESENTATIVE WILL MONITOR THE PROJECT AREA AND ACCESS LOCATIONS DURING CONSTRUCTION.
- 6) THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE OPERATORS FIVE (5) WORKING DAYS IN ADVANCE OF THE WORK. ALL PIPELINES SHALL BE INITIALLY MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION AND SHALL HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY ARE SHOWN ON SHEET 3 OF THE DRAWINGS. THE CONTRACTOR SHALL CALL LOUISIANA-ONE-CALL AND PIPELINE SAFETY (225) 342-3417, FIVE (5) WORKING DAYS PRIOR TO MOBILIZATION. THE CONTRACTOR SHALL NOT PERFORM ANY OPERATIONS WITHIN 1,000' OF A PIPELINE.
- 7) THE RECOMMENDED BORROW AREAS ARE SHOWN ON SHEETS 8-9 OF THE DRAWINGS. BORROW SOURCE INFORMATION TAKEN FROM A 2006 SURVEY DONE BY OCEAN SURVEYS, INC. THE LOCATION OF ALL VIBRACORES AND SAND VERIFICATION CORES ARE AVAILABLE UPON REQUEST. BASED ON THE INFORMATION GIVEN IN THESE DRAWINGS, THE CONTRACTOR SHALL DEVELOP A DREDGING PLAN TO BE APPROVED BY THE ENGINEER. IN NO CASE SHALL THE CONTRACTOR DREDGE BELOW OR OUTSIDE THE LIMITS STATED ON SHEETS 8-9 OF THE PLANS OR IN THE SPECIFICATIONS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ENGINEER.
- 8) VOLUMES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM MARCH 2006 TO JUNE 2006. FOR THE PROJECT AREAS (MARSH FILL AND DUNE FILL), BEFORE AND AFTER DREDGING, CROSS SECTIONS OF THE FILL AREAS SHALL BE SURVEYED BY THE CONTRACTOR FOR MEASUREMENT AND PAYMENT PURPOSES. THE CONTRACTOR SHALL ALSO SURVEY THE BORROW AREA PRIOR TO BEGINNING DREDGING FOR THE MARSH FILL, PRIOR TO BEGINNING DREDGING FOR THE DUNE FILL, IF AWARDED, AND AFTER ALL DREDGING IS COMPLETE. ALL SURVEY WORK PERFORMED BY THE CONTRACTOR FOR MEASUREMENT AND PAYMENT WILL BE MONITORED BY THE ENGINEER OR HIS REPRESENTATIVE. THE ENGINEER SHALL REVIEW ALL BEFORE AND AFTER SURVEY CROSS-SECTIONS AND MEASUREMENTS AND PAYMENT CALCULATIONS. IF A DISCREPANCY CANNOT BE RESOLVED THE ENGINEER SHALL PERFORM A CROSS-SECTION SURVEY TO VERIFY THE CONTRACTORS WORK.
- 9) CONTRACTOR SHALL SUBMIT DESIGN DRAWINGS OF THE EFFLUENT STRUCTURES TO THE ENGINEER FOR APPROVAL.
- 10) MAXIMUM VERTICAL TOLERANCE FOR MARSH AND DUNE FILL PLACEMENT IS 0.5 FT. BELOW AND ABOVE THE TYPICAL DESIGN TEMPLATE SHOWN ON SHEET 6 AND 7 OF THE PROJECT PLANS.
- 11) THE CONTRACTOR IS REQUIRED TO PROVIDE CONTINUAL MAINTENANCE OF THE PRIMARY AND SECONDARY DIKES SO THAT THEY PERFORM THEIR INTENDED FUNCTION DURING THE CONSTRUCTION PERIOD FOR WHICH THEY ARE NEEDED. THE CROWN SECTION OF ALL CONTAINMENT DIKES WILL BE DEGRADED, I.E. THE CREST ELEVATION LOWERED, PRIOR TO DEMOBILIZATION. THE SECONDARY DIKES SHALL BE DEGRADED SO THAT THERE IS A SMOOTH TRANSITION BETWEEN THE DIKE AND THE NEWLY CONSTRUCTED MARSH PLATFORM AT THE TIME THE WORK IS BEING PERFORMED. THE ENGINEER AND OWNER WILL EVALUATE THE MARSH PLATFORM ELEVATION AND STABILITY PRIOR TO DEGRADING THE PRIMARY CONTAINMENT DIKES TO RECOMMEND A FINISHED ELEVATION OF THE PRIMARY DIKE AFTER DEGRADING. IN ANY CASE, THE FINISHED ELEVATION OF THE PRIMARY DIKE WILL NOT BE LOWER THAN THE MARSH PLATFORM ELEVATION NOR WILL THE ELEVATION BE HIGHER THAN 0.6' ABOVE THE MARSH PLATFORM ELEVATION. THE FILL REMOVED FROM ALL DIKES SHALL BE SPREAD EVENLY TO FORM A SMOOTH TRANSITION WITH THE MARSH FILL AREA. THE PRIMARY DIKE SHALL ALSO BE BREACHED TO A DEPTH OF EQUAL TO THE NEW MARSH FULL ELEVATION AT IT'S INTERSECTION WITH THE TWO CREEKS.
- 12) THE CONTRACTOR SHALL NOT TRAVEL AND/OR STORE MATERIALS/EQUIPMENT AND/OR CONDUCT CONSTRUCTION ACTIVITIES ON EXISTING VEGETATED DUNES AND MARSHES UNLESS AUTHORIZED BY THE ENGINEER.
- 13) THE ENVIRONMENTAL ASSESSMENT (EA) FOR THIS PROJECT HAS IDENTIFIED THE PIPING PLOVER AND THE BROWN PELICAN AS THREATENED AND ENDANGERED SPECIES WHICH HAVE THE POTENTIAL FOR EXISTING WITHIN THE PROJECT SITE. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED WITHIN 1500 FEET OF NESTING BIRDS UNLESS APPROVED BY LDNR AND LDWF REPRESENTATIVES. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ANY OTHER RESTRICTIONS OF THE EA, AND ALL PERMITS REGARDING NESTING BIRDS.
- 14) NOT MORE THAN 20% BY WEIGHT OF SILT AND/OR CLAY (GRAIN SIZE < 0.075mm) WILL BE ALLOWED IN EACH CUBIC YARD OF SAND MATERIAL PLACED IN THE DUNE TEMPLATE SECTION.
- 15) PRE-CONSTRUCTION SURVEYS, PERFORMED BY THE CONTRACTOR, WILL BE USED BY THE ENGINEER TO UPDATE THESE CONSTRUCTION PLANS. THE ENGINEER WILL USE THESE UPDATED CROSS SECTIONS OF THE DUNE AND MARSH FILL AREAS AS FINAL BASELINE CONDITIONS OF THE FILL AREAS IN THE PLANS PRIOR TO CONSTRUCTION.
- 16) THE CONTRACTOR WILL BE ALLOWED A MAXIMUM OF THREE (3) CORRIDORS FOR DISCHARGE PIPING ACROSS THE EXISTING PORTIONS OF WHISKEY ISLAND. THE LOCATIONS OF THE CORRIDOR SHALL BE PROPOSED BY THE CONTRACTOR. THE CORRIDORS SHALL HAVE A MAXIMUM WIDTH OF 100 FEET. THE CORRIDORS SHALL NOT BE LOCATED ACROSS ANY EXISTING MARSH HABITAT. THE CONTRACTOR SHALL LOCATE THE CORRIDORS ACROSS EXISTING BEACH AND DUNE PORTIONS OF THE ISLAND TO MINIMIZE IMPACTS TO EXISTING VEGETATION. THE CORRIDOR LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 17) ONCE THE MARSH FILL AREA HAS BEEN CONSTRUCTED AND ACCEPTED AND PRIOR TO THE DUNE CONSTRUCTION (IF AWARDED), BORROW AREA SEDIMENTS DESIGNATED FOR MARSH FILL THAT WERE NOT NEEDED FOR MARSH FILL CONSTRUCTION MAY BE STRIPPED AND PUMPED INTO APPROVED PREVIOUSLY DREDGED SECTIONS OF THE BORROW AREA IF NECESSARY TO ACCESS UNDERLYING SEDIMENTS DESIGNATED FOR DUNE FILL. THE DISPOSAL OF THE EXCESS MARSH FILL SEDIMENTS WILL BE AT NO DIRECT PAY TO THE CONTRACTOR.

SUMMARY OF ESTIMATED QUANTITIES


BASE BID			
ITEM No.	DESCRIPTION	UNIT	QUANTITY
1	MOBILIZATION & DEMOBILIZATION	LUMP	1
2	PRE & POST CONSTRUCTION SURVEYS	LUMP	1
3	HYDRAULIC DREDGING (IN PLACE)(MARSH FILL)	CU. YDS.	2,300,000
4a	PRIMARY CONTAINMENT DIKES (20' CREST)	LIN. FT.	4,967
4b	SECONDARY CONTAINMENT DIKES (10' CREST)	LIN. FT.	11,800
5	CREEK & POND EXCAVATION	CU. YDS.	46,267
6	SETTLEMENT PLATES	EA.	8
11	TIMBER DOCK REMOVAL (CHANGE ORDER NO. 1)	LUMP	1

ADDITIVE ALTERNATE BID			
ITEM No.	DESCRIPTION	UNIT	QUANTITY
7	PRE & POST CONSTRUCTION SURVEYS	LUMP	1
8	HYDRAULIC DREDGING (IN PLACE)(DUNE FILL)	CU. YDS.	236,784
9	SAND FENCING	LIN. FT.	13,000
10	SEEDING	ACRE	95

AS-BUILT

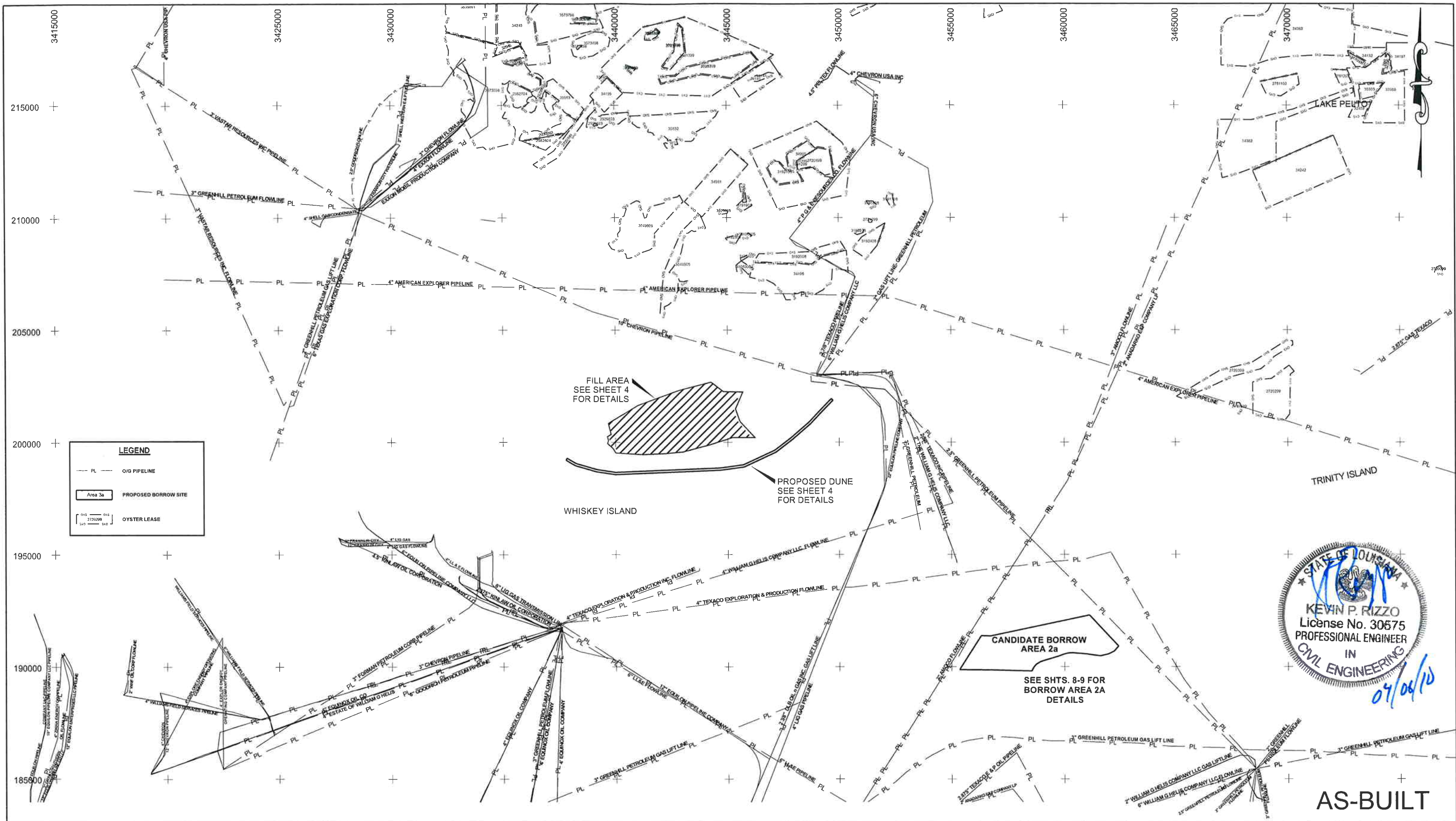


1	2-2-10	AS-BUILT	KMB
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802		WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)		SUMMARY OF ESTIMATED QUANTITIES & NOTES
		STATE PROJECT NUMBER: 2511-05-09		
				FEDERAL PROJECT NUMBER: TE-50
DRAWN BY: KSP	DESIGNED BY: KPR	APPROVED BY: KPR		SHEET 2 OF 22



NOTES

- 1) 2005 DOQQ AERIAL PHOTOGRAPHY
- 2) COORDINATES REFERENCE NAD83, LA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, U.S. SURVEY FEET. ALL ELEVATIONS REFERENCE NAVD88, U.S. SURVEY FEET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNERS OF ALL OIL & GAS FACILITIES IN THE PROJECT AREA FOR ACCESS ROUTES, PIPE LAYING, OR CROSSING IN ADVANCE OF PERFORMING ANY WORK
- 3)

REV	DATE	DESCRIPTION	BY



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

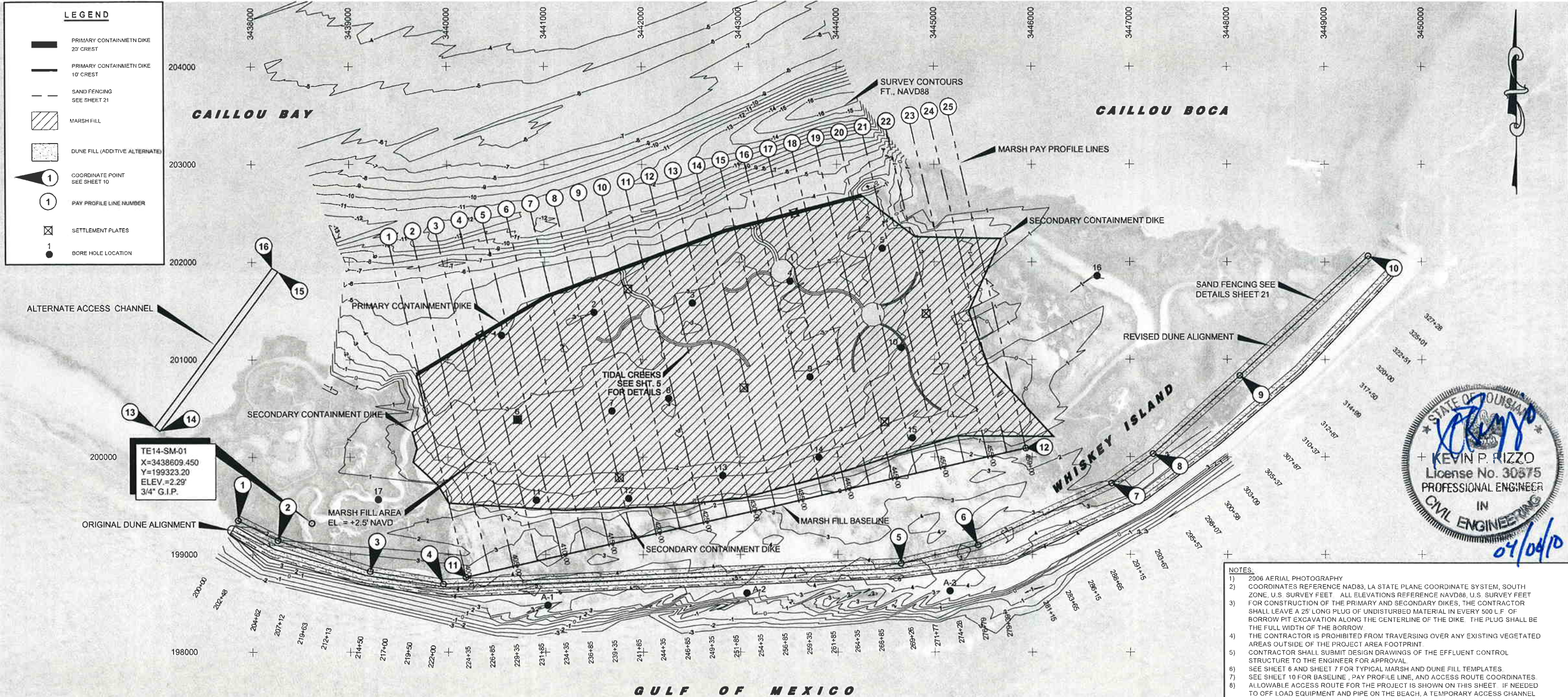
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WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)
STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

LOCATION MAP
DATE: SEPTEMBER 2008
SHEET 3 OF 22

LEGEND

- PRIMARY CONTAINMENT DIKE 20' CREST
- PRIMARY CONTAINMENT DIKE 10' CREST
- SAND FENCING SEE SHEET 21
- MARSH FILL
- DUNE FILL (ADDITIVE ALTERNATE)
- COORDINATE POINT SEE SHEET 10
- PAY PROFILE LINE NUMBER
- SETTLEMENT PLATES
- BORE HOLE LOCATION



STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30375
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
07/04/10

- NOTES**
- 2006 AERIAL PHOTOGRAPHY
 - COORDINATES REFERENCE NAD83, LA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, U.S. SURVEY FEET. ALL ELEVATIONS REFERENCE NAVD88, U.S. SURVEY FEET
 - FOR CONSTRUCTION OF THE PRIMARY AND SECONDARY DIKES, THE CONTRACTOR SHALL LEAVE A 25' LONG PLUG OF UNDISTURBED MATERIAL IN EVERY 500 L.F. OF BORROW PIT EXCAVATION ALONG THE CENTERLINE OF THE DIKE. THE PLUG SHALL BE THE FULL WIDTH OF THE BORROW.
 - THE CONTRACTOR IS PROHIBITED FROM TRAVERSING OVER ANY EXISTING VEGETATED AREAS OUTSIDE OF THE PROJECT AREA FOOTPRINT.
 - CONTRACTOR SHALL SUBMIT DESIGN DRAWINGS OF THE EFFLUENT CONTROL STRUCTURE TO THE ENGINEER FOR APPROVAL.
 - SEE SHEET 6 AND SHEET 7 FOR TYPICAL MARSH AND DUNE FILL TEMPLATES.
 - SEE SHEET 10 FOR BASELINE, PAY PROFILE LINE, AND ACCESS ROUTE COORDINATES. ALLOWABLE ACCESS ROUTE FOR THE PROJECT IS SHOWN ON THIS SHEET. IF NEEDED TO OFF LOAD EQUIPMENT AND PIPE ON THE BEACH, A TEMPORARY ACCESS CHANNEL MAY BE EXCAVATED. SEE DETAIL 4 ON SHEET 6 FOR ALLOWABLE TOLERANCES OF THE ACCESS CHANNEL. THE CONTRACTOR MAY PROPOSE AN ALTERNATE ACCESS ROUTE TO THE PROJECT. ANY ALTERNATE ACCESS ROUTE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS FOR ANY ALTERNATE ACCESS ROUTES. FILL IN ALL ACCESS CHANNELS PRIOR TO DEMOBILIZATION.
 - REFER TO GEOTECHNICAL BORING LOGS INCLUDED IN SPECIFICATIONS FOR GEOTECHNICAL INFORMATION.
 - CONTRACTOR SHALL SUBMIT PROPOSED ACCESS CORRIDORS FOR DISCHARGE PIPES TO THE ENGINEER FOR APPROVAL.
 - REFER TO SECTION TS-10 OF THE TECHNICAL SPECIFICATIONS FOR LOCATIONS OF GRADE STAKES REQUIRED IN THE MARSH FILL AREA.

AS-BUILT



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BATON ROUGE, LOUISIANA 70802

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DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

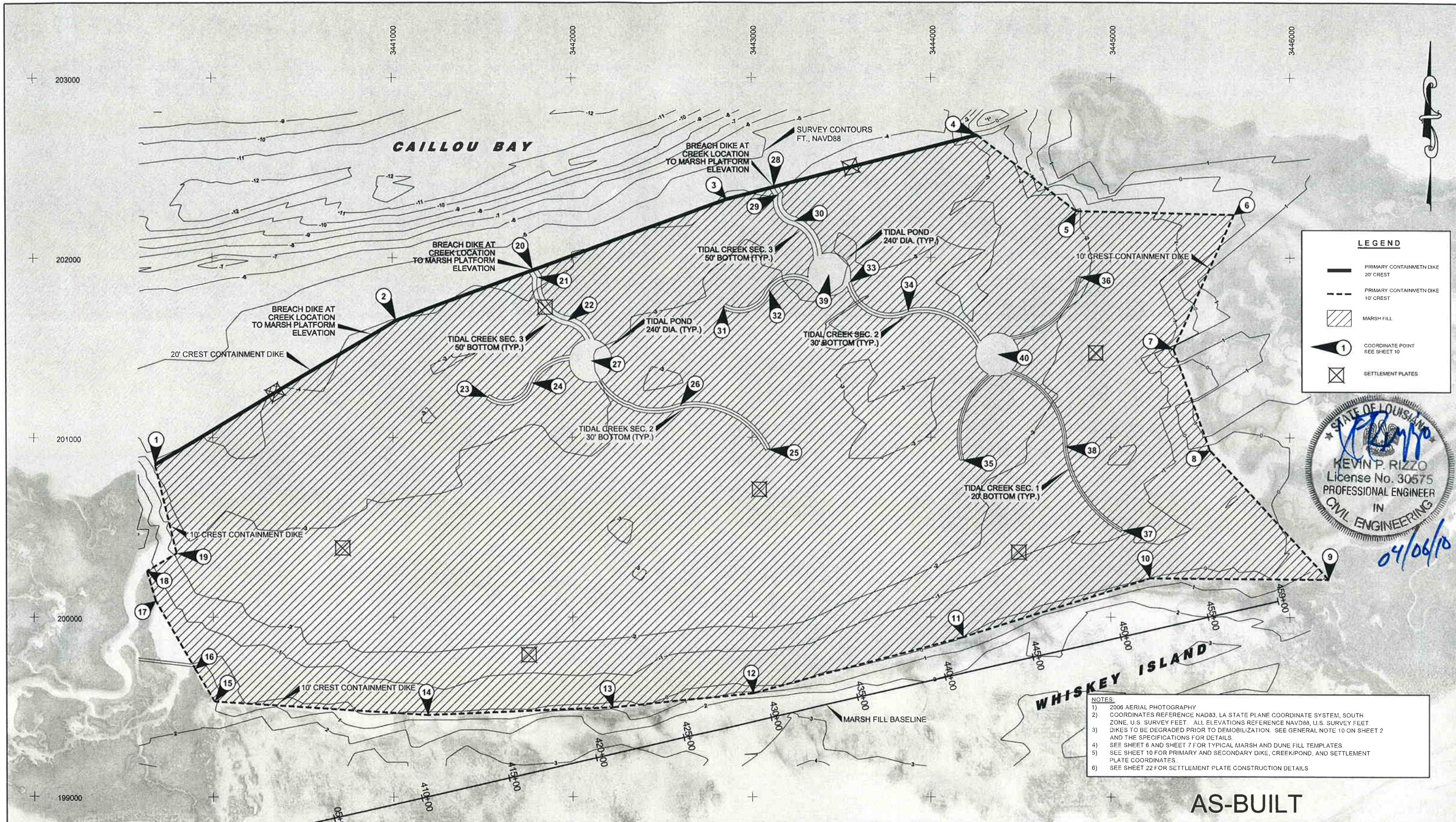
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

PROJECT LAYOUT

DATE: SEPTEMBER 2008

SHEET 4 OF 22



500 250 0' 500 1000

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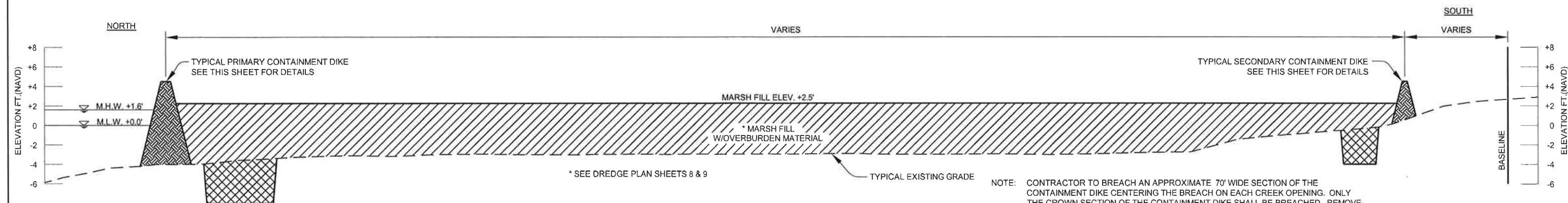
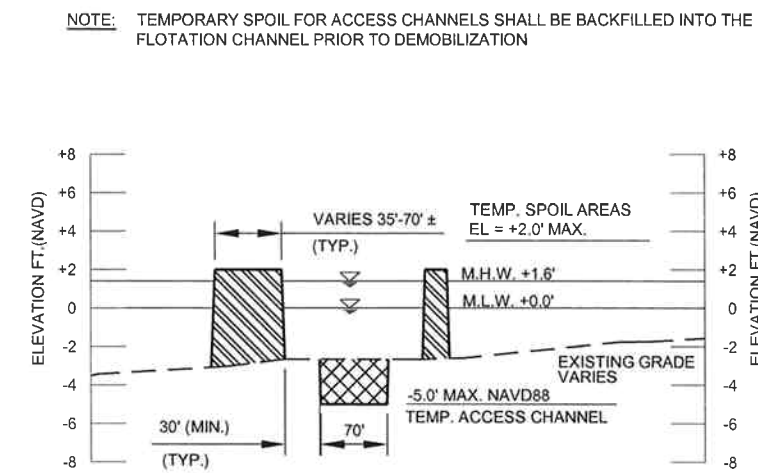
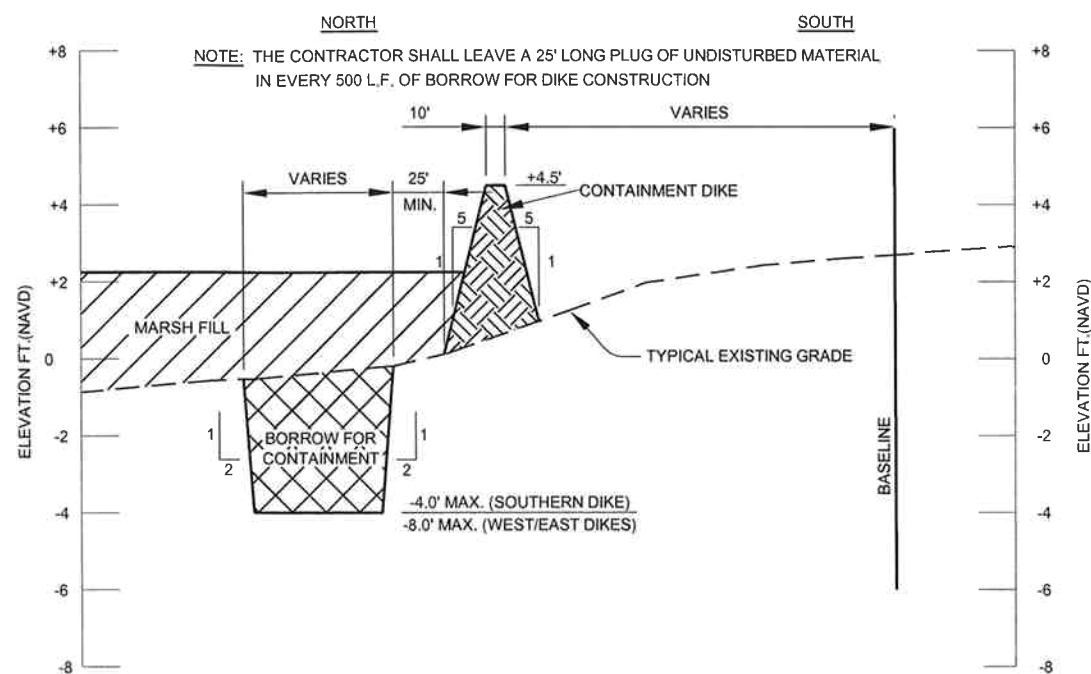
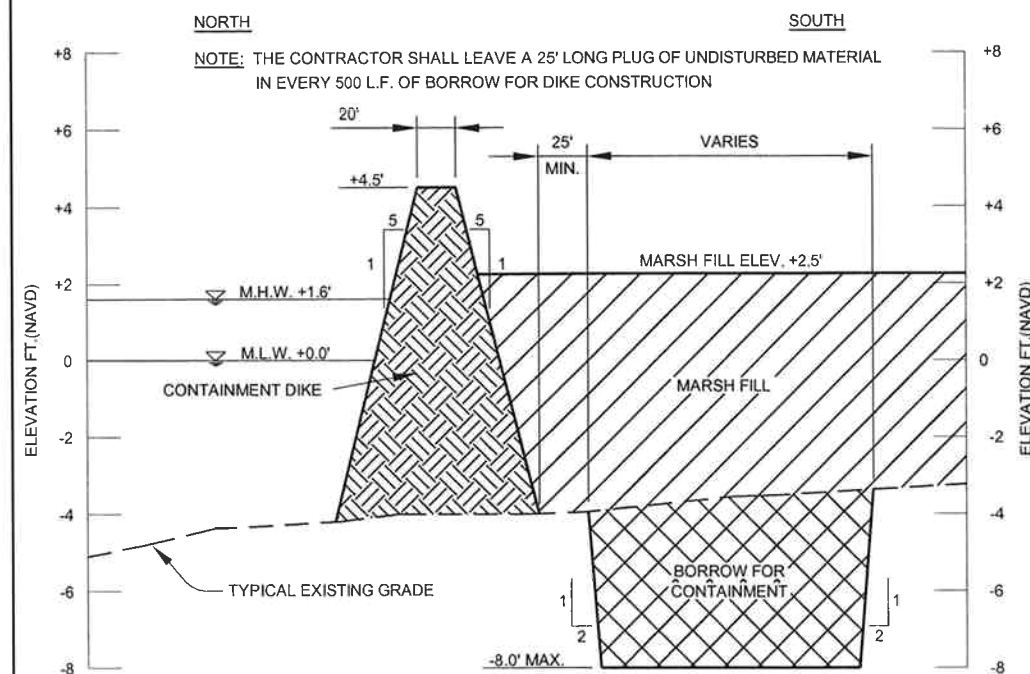
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

PLAN VIEW
TIDAL CREEKS & PONDS

DATE: SEPTEMBER 2008

SHEET 5 OF 22



NOTE: CONTRACTOR TO BREACH AN APPROXIMATE 70' WIDE SECTION OF THE CONTAINMENT DIKE CENTERING THE BREACH ON EACH CREEK OPENING. ONLY THE CROWN SECTION OF THE CONTAINMENT DIKE SHALL BE BREACHED. REMOVE MATERIAL FROM THE CROWN OF THE DIKE TO ELEVATION OF +1.0 NAVD. PLACE THE REMOVED MATERIAL WITHIN THE MARSH PLATFORM TEMPLATE AND SPREAD OUTSIDE OF THE FOOTPRINT OF THE CREEK EXCAVATION TO FORM A SMOOTH TRANSITION BETWEEN THE DIKE AND THE MARSH FILL.

AS-BUILT



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WHISKEY ISLAND BACK BARRIER
 MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

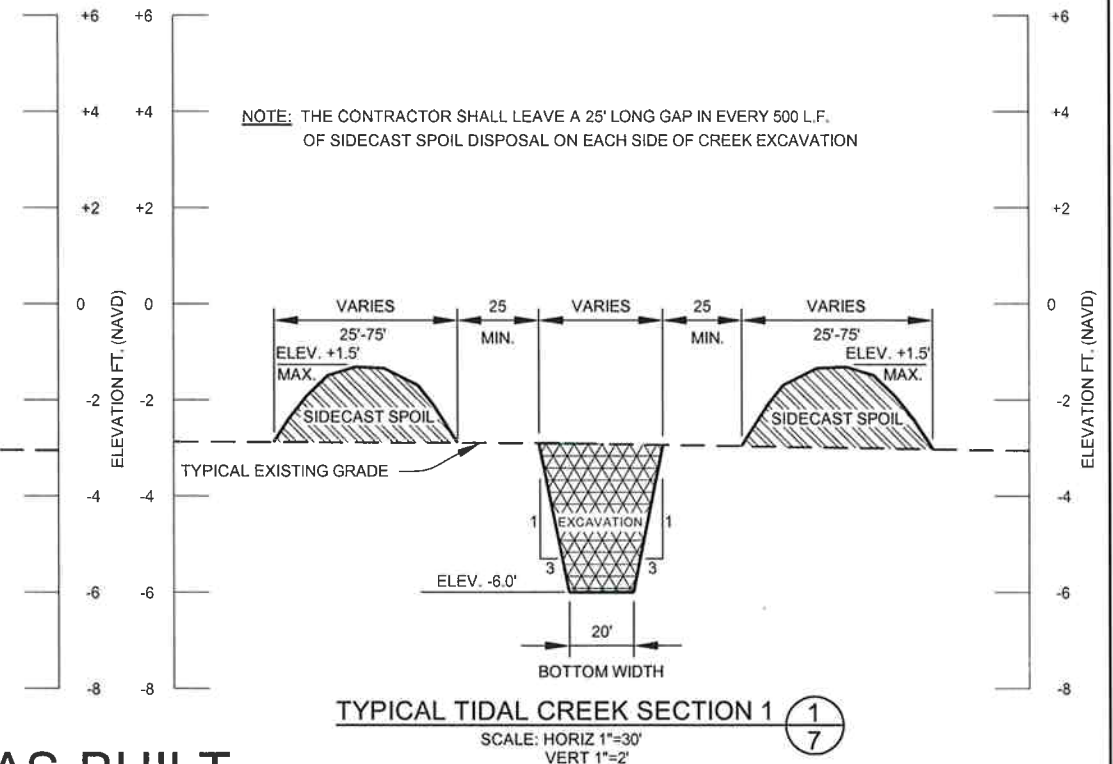
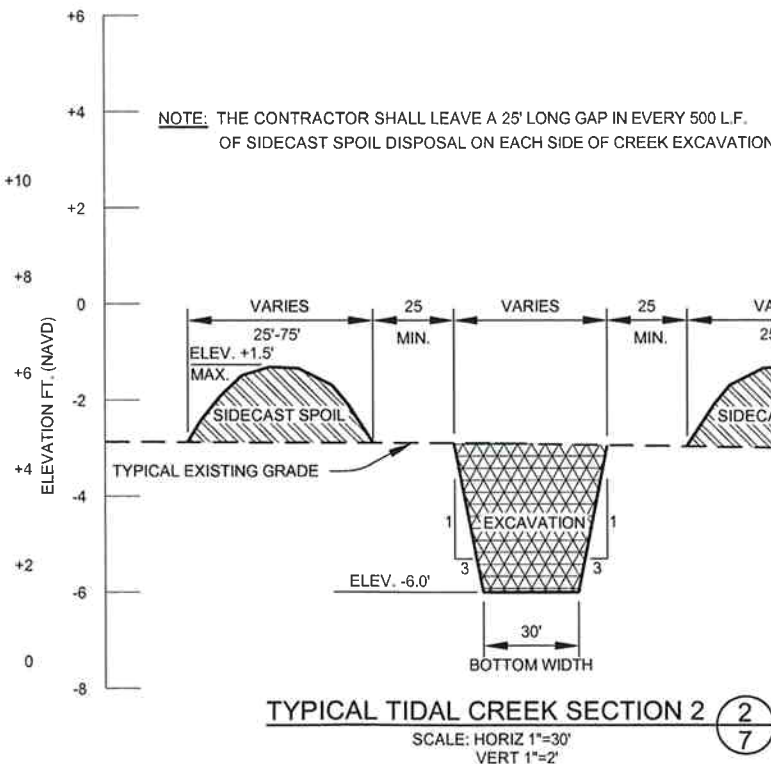
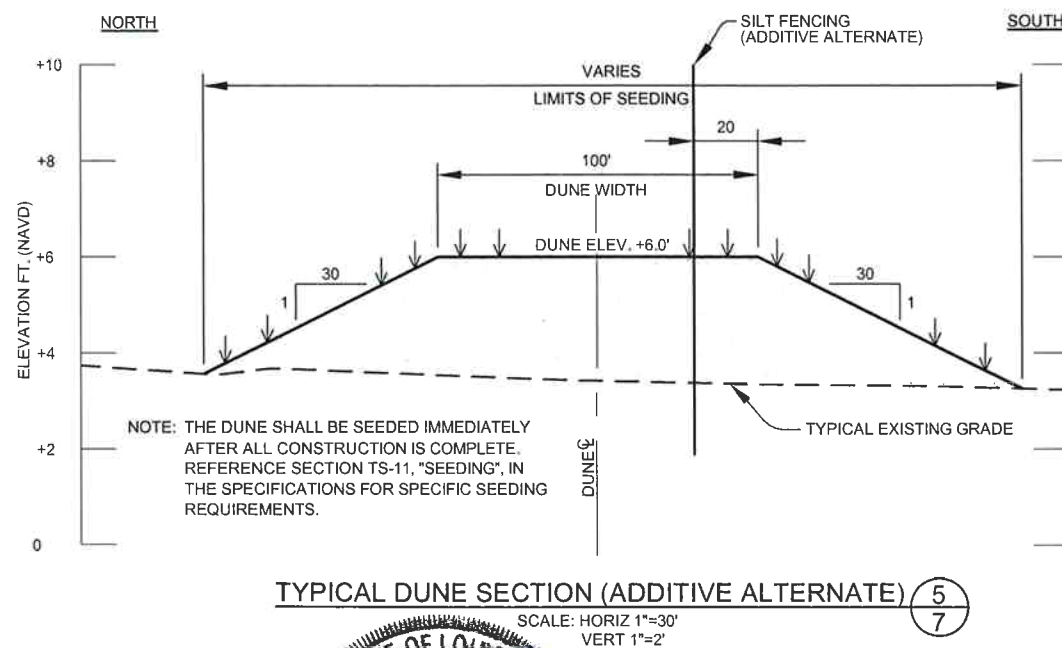
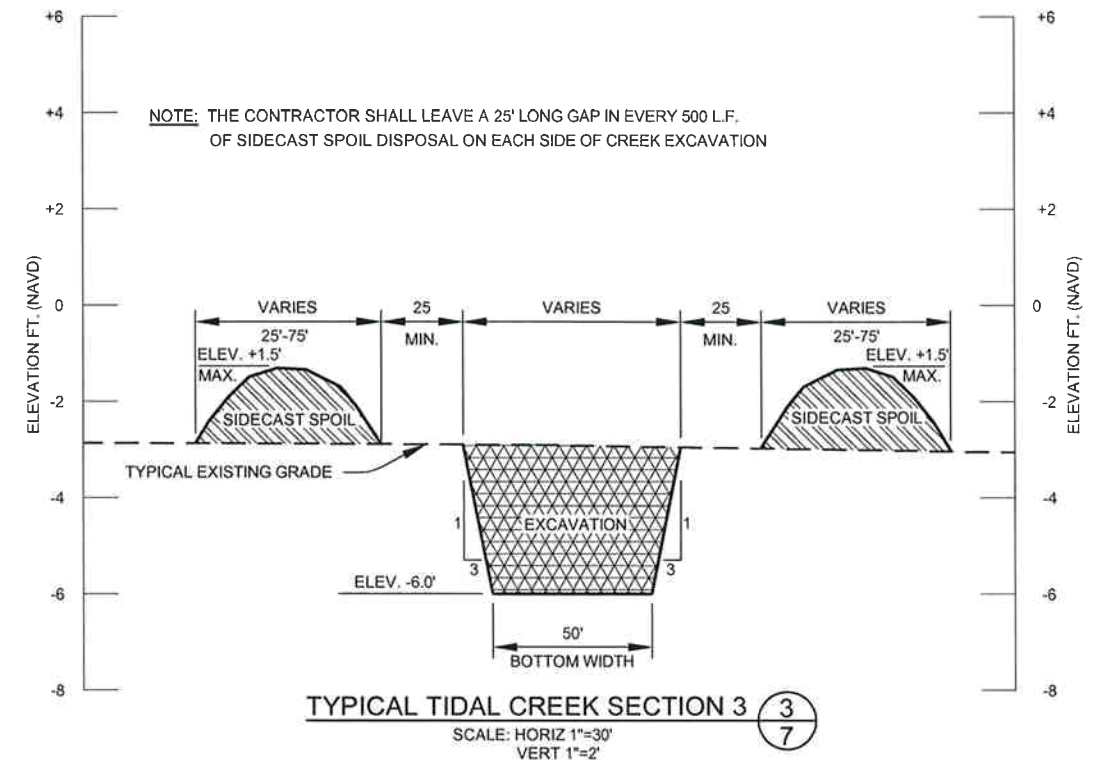
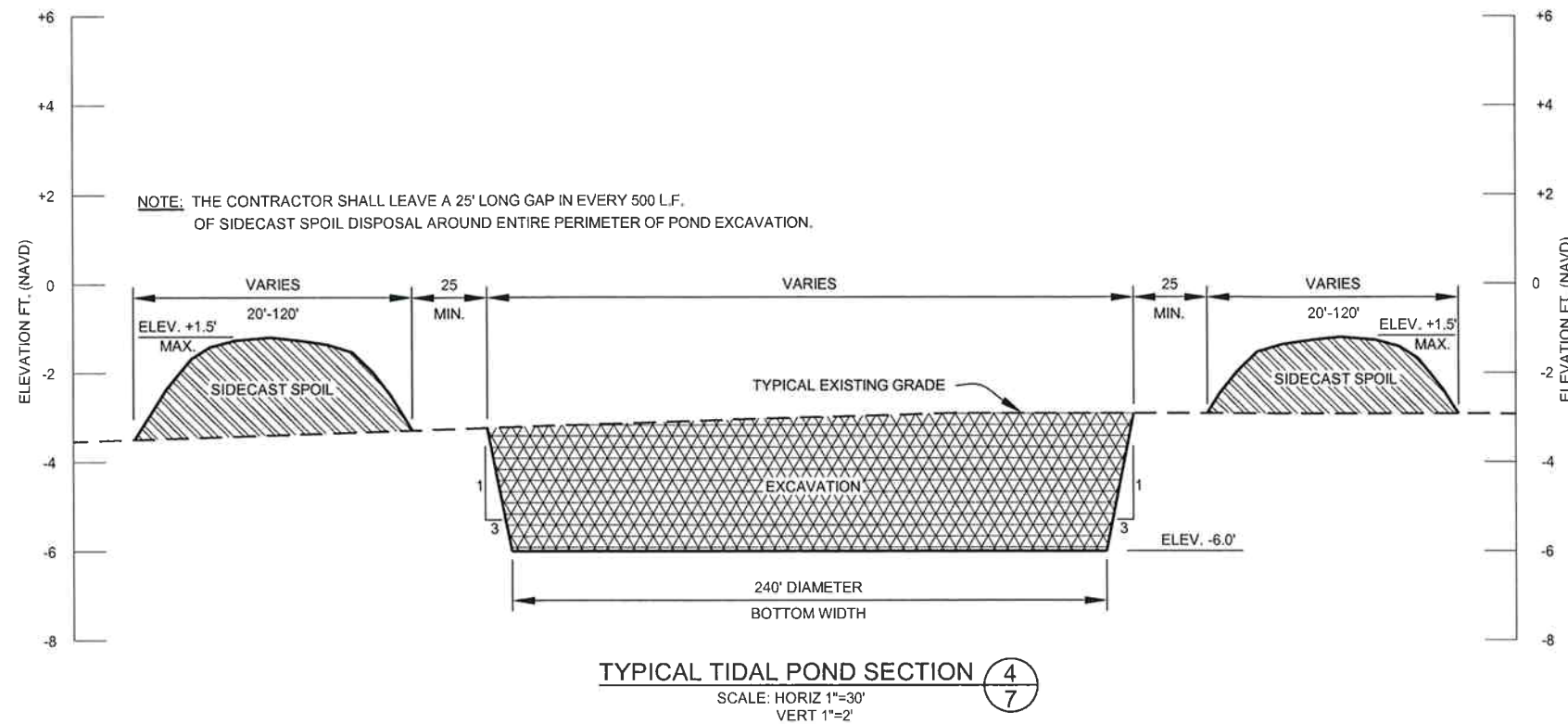
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TYPICAL CROSS SECTIONS
 SHEET 1 OF 2

DATE: SEPTEMBER 2008

SHEET 6 OF 22



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WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

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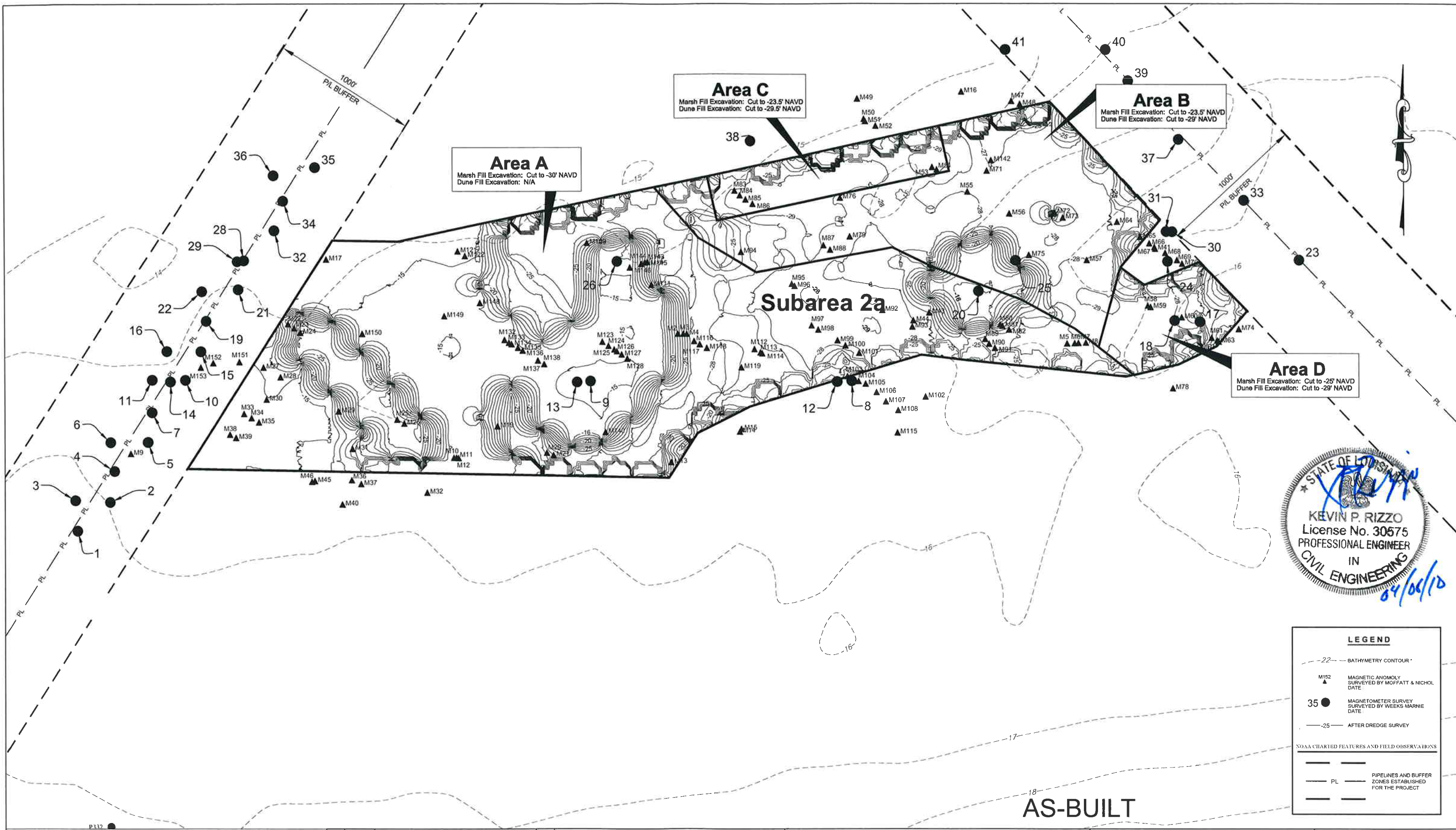
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TYPICAL CROSS SECTIONS
SHEET 2 OF 2

DATE: SEPTEMBER 2008

SHEET 7 OF 22



LEGEND	
	22-- BATHYMETRY CONTOUR
	M152 MAGNETIC ANOMOLY SURVEYED BY MOFFATT & NICHOL DATE
	35 MAGNETOMETER SURVEY SURVEYED BY WEEKS MARNIE DATE
	-25- AFTER DREDGE SURVEY
NOAA CHARTED FEATURES AND FIELD OBSERVATIONS	
	PIPELINES AND BUFFER ZONES ESTABLISHED FOR THE PROJECT
	PL



REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB



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WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

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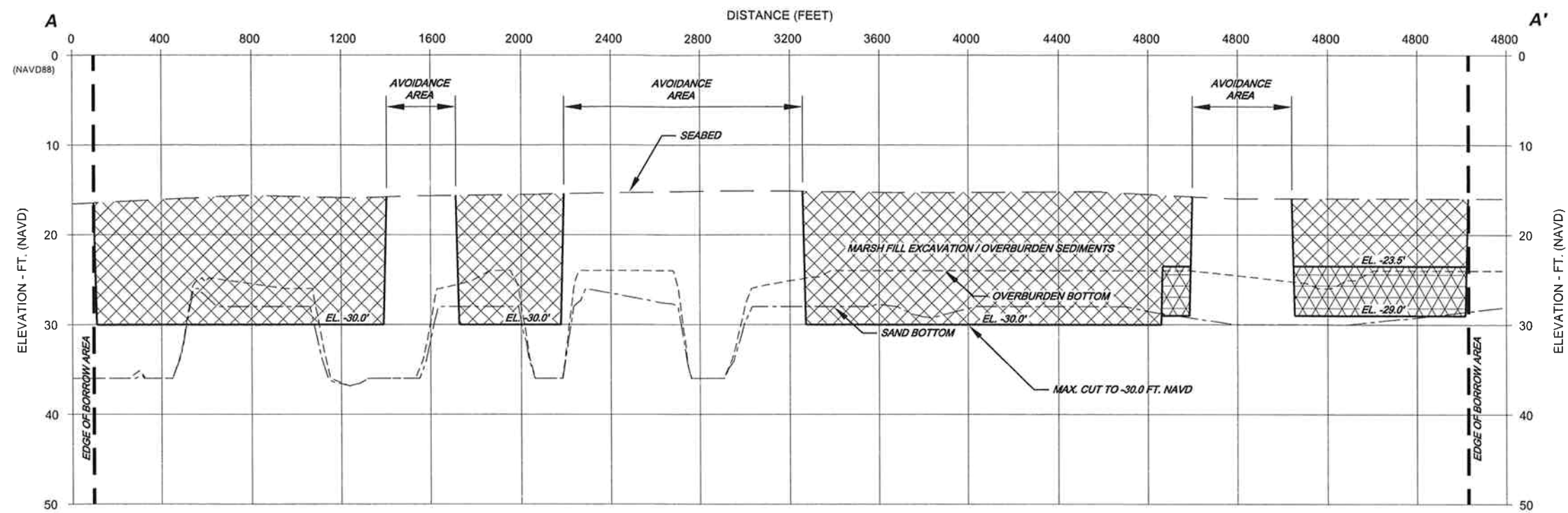
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DREDGE PLAN
SUBAREA 2a

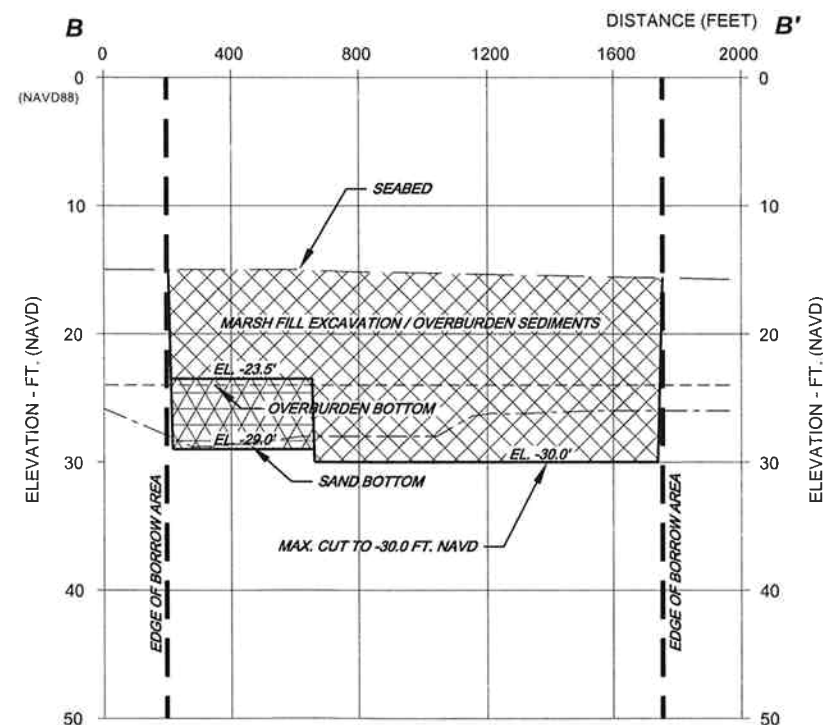
DATE: SEPTEMBER 2008

SHEET 8 OF 22



SECTION A-A'

SCALE: HORIZ 1"=300'
VERT 1"=10'



SECTION B-B'

SCALE: HORIZ 1"=300'
VERT 1"=10'

AS-BUILT



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COASTAL ENGINEERING DIVISION**

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**WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)**

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

**DREDGE PLAN-SUBAREA 2a
CROSS SECTIONS**

DATE: SEPTEMBER 2008

SHEET 9 OF 22

SETTLEMENT PLATE LOCATIONS (NAD83)			
PLATE #	X	Y	Z
1	3440356.873	201242.009	9.148'
2	3443556.415	202498.351	11.084'
3	3441854.885	201717.463	7.245'
4	3440720.703	200382.387	7.528'
5	3443039.234	200705.982	7.392'
6	3444917.043	201471.021	8.581'
7	3441751.225	199788.030	7.827'
8	3444482.432	200364.727	6.319'

DUNE FILL BASELINE COORDINATES (NAD83)				
POINT #	X	Y	STATION	BEARING TO NEXT PT
1	3437852.28	199350.98	200+00	S 63°25'38" E
2	3438261.80	199146.15	204+58	S 71°18'46" E
3	3439198.28	198829.40	214+46	S 80°13'12" E
4	3439948.40	198700.10	222+08	N 87°26'36" E
5	3444656.10	198910.30	269+20	N 76°33'37" E
6	3445443.53	199098.47	277+30	N 65°7'44" E
7	3446610.52	199732.17	292+36	N 54°13'5" E
8	3447228.48	200035.10	297+53	N 48°14'4" E
9	3448129.07	200837.26	309+59	N 47°3'2" E
10	3449446.16	202063.30	327+28	N/A

MARSH FILL BASELINE COORDINATES (NAD83)				
POINT #	X	Y	STATION	BEARING TO NEXT PT
11	3440183.304	198768.710	400+00.00	N 77°02'43" E
12	3445933.135	200091.377	459+00.00	N/A

MARSH PAY PROFILE LINE COORDINATES (NAD83)				
PROFILE #	X AT BASELINE	Y AT BASELINE	STATION	BEARING
1	3440183.30	198768.70	400+00	N 12°57'17" W
2	3440426.94	198824.75	402+50	N 12°57'17" W
3	3440670.57	198880.80	405+00	N 12°57'17" W
4	3440914.21	198936.84	407+50	N 12°57'17" W
5	3441157.85	198992.89	410+00	N 12°57'17" W
6	3441401.48	199048.93	412+50	N 12°57'17" W
7	3441645.12	199104.98	415+00	N 12°57'17" W
8	3441888.76	199161.02	417+50	N 12°57'17" W
9	3442132.39	199217.07	420+00	N 12°57'17" W
10	3442376.03	199273.11	422+50	N 12°57'17" W
11	3442619.67	199329.16	425+00	N 12°57'17" W
12	3442863.30	199385.20	427+50	N 12°57'17" W
13	3443106.94	199441.25	430+00	N 12°57'17" W
14	3443350.58	199497.29	432+50	N 12°57'17" W
15	3443594.22	199553.34	435+00	N 12°57'17" W
16	3443837.85	199609.38	437+50	N 12°57'17" W
17	3444081.49	199665.43	440+00	N 12°57'17" W
18	3444325.13	199721.47	442+50	N 12°57'17" W
19	3444568.76	199777.52	445+00	N 12°57'17" W
20	3444812.40	199833.56	447+50	N 12°57'17" W
21	3445056.04	199889.61	450+00	N 12°57'17" W
22	3445299.67	199945.65	452+50	N 12°57'17" W
23	3445543.31	200001.70	455+00	N 12°57'17" W
24	3445786.22	200046.54	457+50	N 12°57'17" W
25	3445933.13	200091.37	459+00	N 12°57'17" W

CREEK AND POND COORDINATES (NAD83)					
POINT #	X (BEGIN)	Y (BEGIN)	CHORD BEARING TO NEXT PT.	CHORD LENGTH	RADIUS (FEET)
20	3441782.44	201932.09	S 30°39'41" E	48.6	TANGENT
21	3441807.24	201890.25	S 35°06'30" E	295.3	208.3
22	3441977.06	201648.70	S 50°04'00" E	160.2	174.1
23	3441532.26	201225.27	N 72°00'05" E	252.2	151.2
24	3441772.08	201303.18	N 56°46'41" E	255.5	266.7
25	3443089.38	200933.85	N 63°50'08" W	544.6	453.4
26	3442600.57	201173.99	N 72°27'13" W	470.4	367.2
27	3442104.59	201425.99	N/A	N/A	120.0
28	3443125.49	202393.31	S 32°26'13" E	51.6	TANGENT
29	3443153.19	202349.74	S 30°49'06" E	172.4	115.5
30	3443241.55	202201.61	S 34°51'40" E	233.9	207.4
31	3442844.79	201728.99	N 69°50'59" E	270.5	179.9
32	3443098.77	201822.19	N 78°15'08" E	230.5	172.1
33	3443547.97	201859.12	S 63°47'17" E	365.0	232.0
34	3443875.45	201697.90	S 65°44'55" E	430.2	349.6
35	3444174.42	200873.31	N 18°20'53" E	500.0	446.8
36	3444824.89	201892.93	S 47°33'58" W	506.6	445.9
37	3445060.69	200483.88	N 34°12'25" W	560.9	625.1
38	3444745.39	200947.70	N 35°43'09" W	515.1	429.3
39	3443438.13	201907.44	N/A	N/A	120.0
40	3444371.63	201461.14	N/A	N/A	120.0

CONTAINMENT DIKE POINTS (NAD83)		
POINT #	X	Y
1	3439677.136	200848.959
2	3441019.939	201651.320
3	3442859.651	202324.085
4	3444258.786	202681.321
5	3444806.532	202258.604
6	3445686.168	202239.227
7	3445351.028	201490.532
8	3445552.662	200928.272
9	3446219.076	200210.496
10	3445219.373	200216.644
11	3444182.915	199888.519
12	3443005.831	199576.019
13	3442224.581	199497.894
14	3441193.331	199456.227
15	3440006.737	199530.005
16	3439897.495	199712.012
17	3439680.343	200089.778
18	3439631.525	200256.506
19	3439795.486	200355.204

ACCESS ROUTE & TEMP. CHANNEL (NAD83)		
POINT #	X	Y
13	3436995.02	200312.69
14	3437051.33	200271.11
15	3438270.63	201904.42
16	3438208.40	201938.08

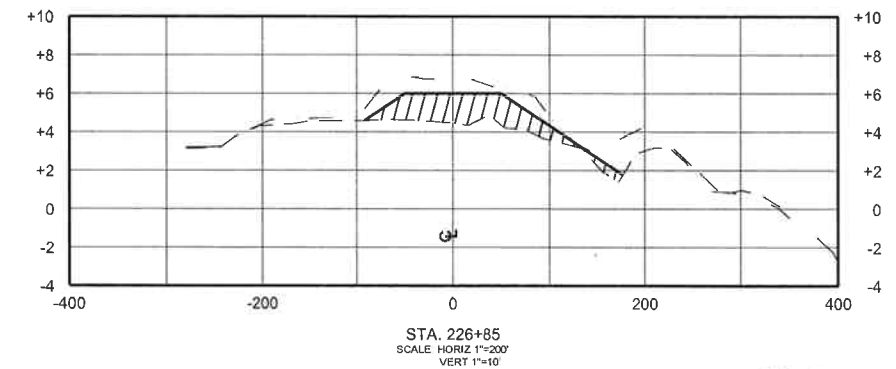
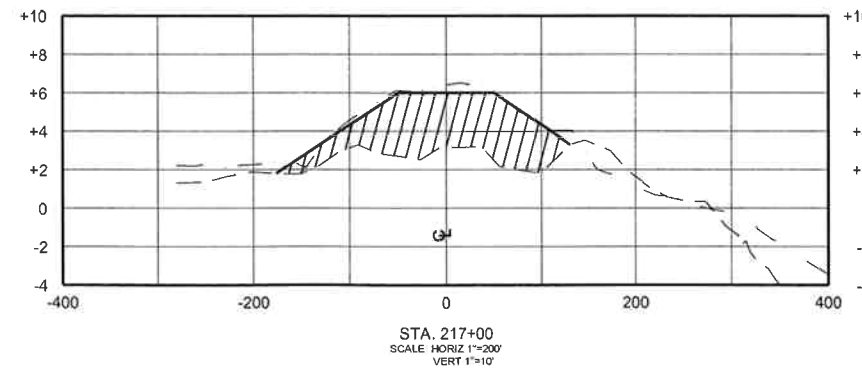
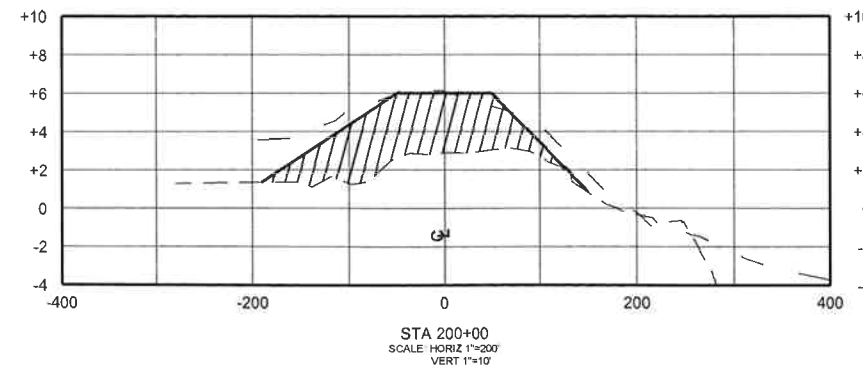
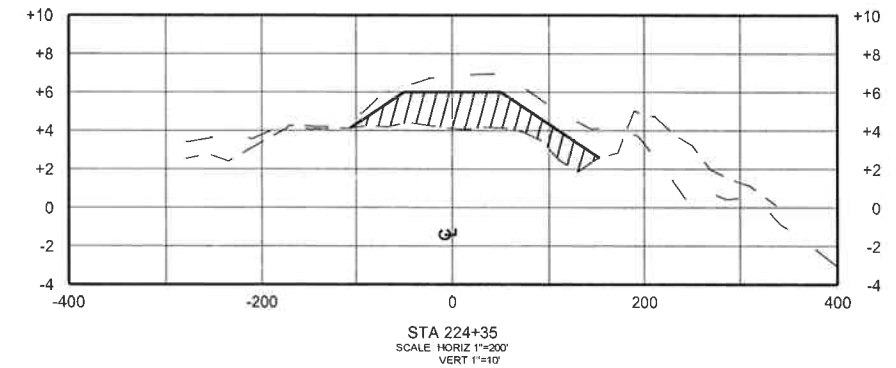
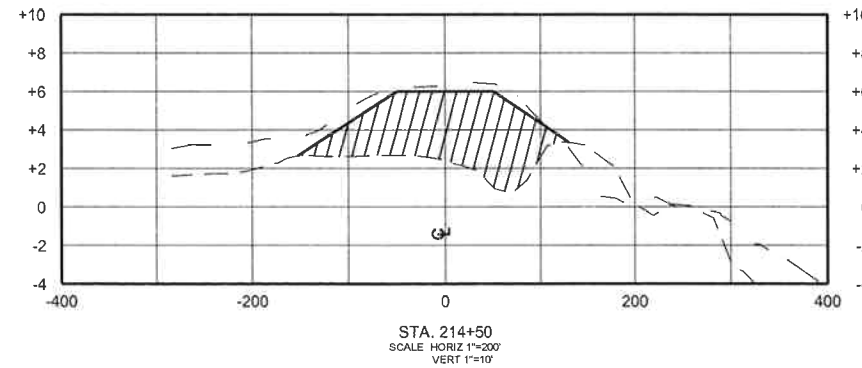
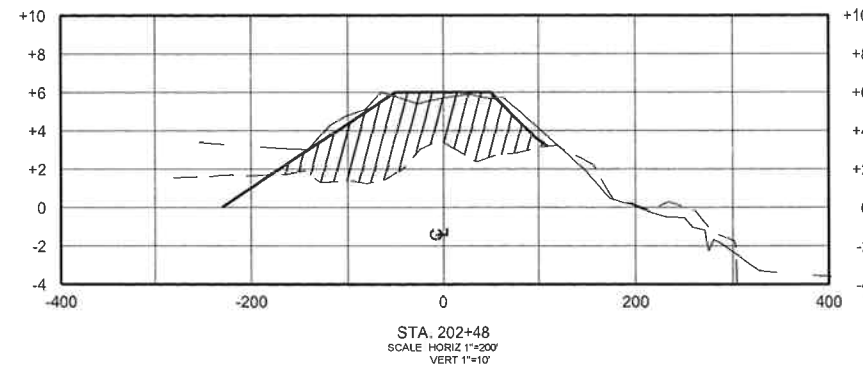
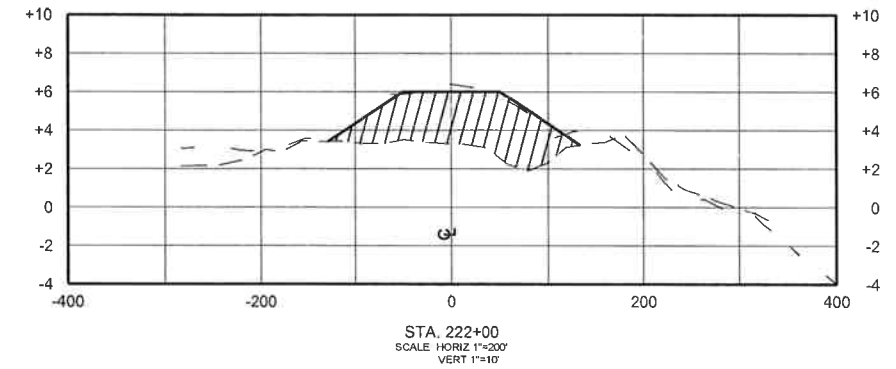
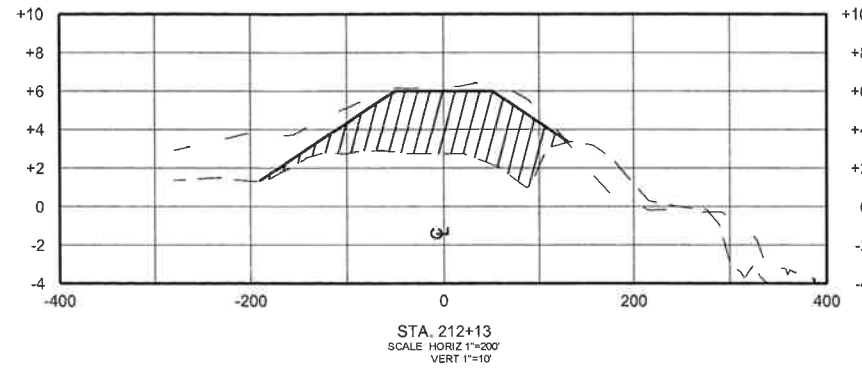
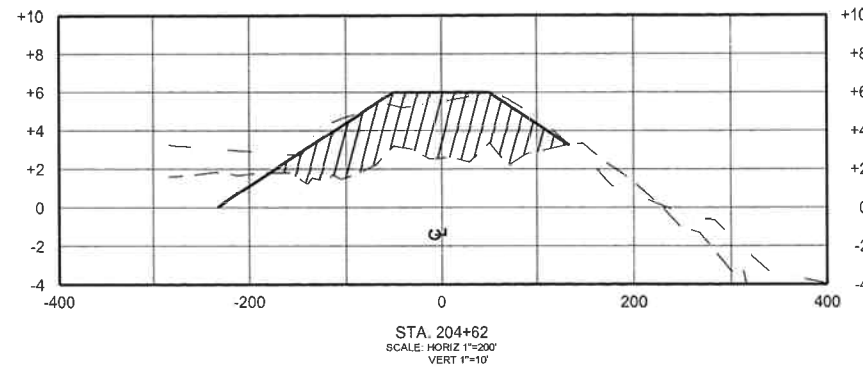
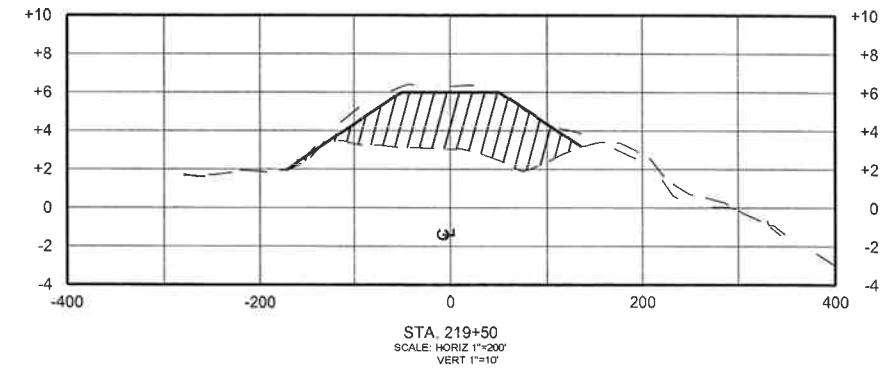
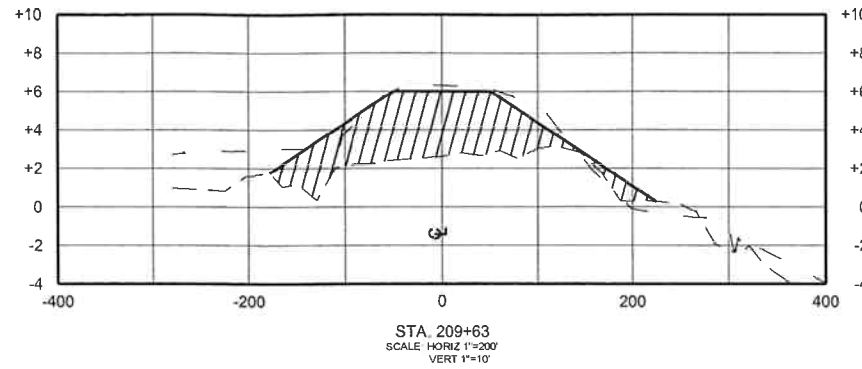
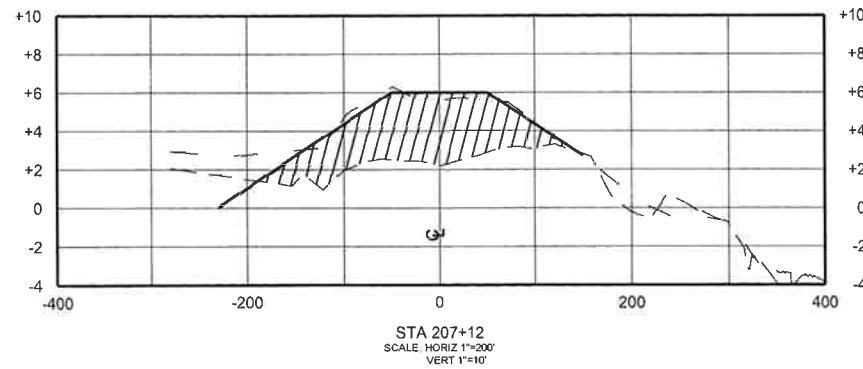
BORROW AREA 2a UNIDENTIFIED MAGNETIC ANOMALY TABLE											
REF NO.	AMP.	CAT.	X	Y	REMARKS	REF NO.	AMP.	CAT.	X	Y	REMARKS
1	17	mc	3458325	190776	Unknown	81	5	m	3460786	190813	Unknown, possible noise
2	20	m	3458622	190762	Unknown, possible noise	82	24	mc	3460830	190788	Unknown, possible noise
3	29	m	3458858	190762	Unknown, possible noise	83	8	m	3459000	191712	Unknown, possible noise
4	8	m	3458881	190762	Unknown, possible noise	84	21	m	3459035	191681	Unknown, possible noise
5	25	m	3461211	190696	Unknown, possible noise	85	23	m	3459074	191653	Unknown, possible noise
6	22	m	3461261	190698	Unknown, possible noise	86	19	mc	3459121	191624	Unknown, possible noise
7	30	m	3461286	190700	Unknown, possible noise	87	24	mc	3459598	191349	Unknown, possible noise
8	14	mc	3461335	190702	Unknown, possible noise	88	31	m	3459642	191319	Unknown, possible noise
9	1730	m	3454980	189966	Pipeline, TGP Co. 26-in Gas (Seq. 3562)	89	5	m	3460672	190726	Unknown, possible noise
10	8	m	3457132	189938	Unknown, possible noise	90	23	mc	3460698	190694	Unknown, possible noise
11	5	m	3457149	189939	Unknown, possible noise	91	18	mc	3460736	190666	Unknown, possible noise
12	11	mc	3457163	189936	Unknown, short duration	92	30	m	3459985	190918	Unknown, short duration
13	5	m	3458576	189908	Unknown, short duration	93	30	m	3460184	190808	Unknown, short duration
14	6	m	3459031	190111	Unknown, short duration	94	16	m	3459042	191305	Unknown, short duration
15	8	m	3459042	190129	Unknown, short duration	95	15	m	3459383	191092	Unknown, short duration
16	6	m	3460515	192369	Unknown, start of line	96	22	m	3459402	191078	Unknown, short duration
17	47	mc	3456283	191257	Unknown, possible pipeline lobe or debris	97	16	mc	3459516	190816	Unknown, short duration
18	213	d	3457036	190376	Unknown	98	22	mc	3459561	190788	Unknown, short duration
19	49	dc	3457419	190146	Unknown, short duration	99	20	m	3459689	190717	Unknown, short duration
20	18	m	3457743	189971	Unknown, short duration	100	22	m	3459741	190683	Unknown, short duration
21	14	m	3457787	189955	Unknown, short duration	101	10	m	3459830	190633	Unknown, short duration
22	13	m	3456029	190827	Unknown, short duration	102	8	dc	3460271	190343	Unknown
23	24	m	3456070	190800	Unknown, short duration	103	12	m	3459754	190479	Unknown, possible noise
24	20	m	3456111	190770	Unknown, short duration	104	5	m	3459826	190446	Unknown, possible noise
25	29	m	3456750	190192	Unknown, short duration	105	6	m	3459873	190429	Unknown, possible noise
26	20	m	3456798	190166	Unknown, short duration	106	5	mc	3459945	190373	Unknown, possible noise
27	21	mc	3455865	190539	Unknown, short duration	107	8	mc	3460007	190311	Unknown, possible noise
28	27	m	3455978	190474	Unknown, short duration	108	7	mc	3460089	190253	Unknown, possible noise
29	7	m	3456362	190247	Unknown, short duration	109	30	m	3458015	191365	Unknown, short duration
30	6	m	3455885	190326	Unknown, short duration	110	42	m	3458259	191213	Unknown, Same as 110/147
31	7	m	3456451	189998	Unknown, short duration	111	26	m	3458447	191086	Unknown, short duration
32	11	dc	3456951	189706	Unknown	112	30	mc	3459131	190659	Unknown, Cluster 1 (short duration)
33	16	m	3455734	190231	Unknown, possible noise	113	6	m	3459171	190637	Unknown, Cluster 1 (short duration)
34	29	mc	3455784	190203	Unknown, possible noise	114	24	m	3459183	190631	Unknown, Cluster 1 (short duration)
35	25	m	3455833	190174	Unknown, possible noise	115	6	m	3460084	190104	Unknown, short duration
36	7	d	3456446	189790	Unknown, short duration	116	24	mc	3458730	190713	Unknown, possible noise
37	5	mc	3456508	189764	Unknown, short duration	117	21	m	3458767	190692	Unknown, possible noise
38	22	mc	3455640	190093	Unknown, possible noise	118	18	mc	3458813	190668	Unknown, possible noise
39	21	m	3455680	190072	Unknown, possible noise	119	14	m	3459042	190538	Unknown, possible noise
40	8	dc	3456385	189628	Unknown	120	25	dc	3458337	190768	Unknown
41	22	m	3461801	191326	Unknown, oil & gas debris (Same as 41/67).	121	32	m	3457161	191309	Unknown, possible noise
42	6	m	3460575	190994	Unknown, Cluster 5	122	19	mc	3457210	191278	Unknown, possible noise
43	9	mc	3460296	190902	Unknown, short duration	123	19	mc	3458117	190708	Unknown, possible noise
44	8	m	3460191	190850	Unknown, possible noise	124	25	mc	3458158	190681	Unknown, possible noise
45	7	m	3456205	189784	Unknown, possible noise	125	11	m	3458197	190657	Unknown, possible noise
46	5	dc	3456186	189779	Unknown, short duration	126	30	m	3458215	190645	Unknown, possible noise
47	19	mc	3460848	192307	Unknown, short duration	127	32	m	3458247	190624	Unknown, possible noise
48	10	mc	3460904	192287	Unknown, short duration	128	11	m	3458285	190596	Unknown, possible noise
49	7	m	3459821	192322	Unknown, possible noise	129	56	m	3458038	190552	Unknown, Cluster 4
50	8	m	3459865	192187	Unknown, possible noise	130	69	mc	3458111	190510	Unknown, Cluster 4
51	9	m	3459874	192173	Unknown, possible noise	131	19	m	3458140	190493	Unknown, Cluster 4
52	6	m	3459943	192142	Unknown, possible noise	132	13	mc	3457467	190720	Unknown, possible noise (Rerun)
53	8	m	3460318	191868	Unknown, possible noise	133	8	mc	3457496	190701	Unknown, possible noise (Rerun)
54	5	dc	3460349	191852	Unknown, possible noise	134	13	m	3457513	190692	Unknown, possible noise (Rerun)
55	5	m	3460555	191705	Unknown, possible noise	135	15	m	3457555	190668	Unknown, possible noise (Rerun)
56	5	m	3460833	191559	Unknown, possible noise	136	20	mc	3457586	190649	Unknown, possible noise (Rerun)
57	7	dc	3461342	191251	Unknown, possible noise	137	23	m	3457686	190583	Unknown, possible noise (Rerun)
58	5	m	3461751	190948	Unknown, possible noise	138	17	m	3457727	190559	Unknown, short duration
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60	363	m	3461979	190871	Unknown, oil & gas debris	140	23	mc	3458136	190108	Unknown, short duration
61	6	m	3462175	190734	Unknown, possible noise	141	25	mc	3457953	190426	Unknown, Same as 139/141
62	6	m	3462213	190716	Unknown, possible noise	142	5	d	3460713	191913	Unknown, short duration
63	7	m	3462222	190709	Unknown, possible noise	143	11	m	3458421	191239	Unknown, possible noise
64	33	m	3461546	191505	Unknown, short duration	144	6	m	3458405	191235	Unknown, possible noise
65	13	m	3461701	191404	Unknown, short duration	145	7	m	3458380	191225	Unknown, possible noise
66	12	m	3461762	191362	Unknown, short duration	146	10	m	3458304	191201	Unknown, possible noise
67	89	mc	3461796	191337	Unknown, oil & gas debris (Same as 41/67)	147	6	dc	3458286	191199	Unknown, Same as 110/147
68	5	m	3461869	191298	Unknown, short duration	148	18	m	3457308	190866	Unknown, short duration
69	12	m	3461948	191251	Unknown, short duration	149	7	m	3457069	190879	Unknown, short duration
70	16	m	3461982	191227	Unknown, short duration	150	5	m	3456518	190762	Unknown, short duration
71	6	m	3460685	191844	Unknown, possible noise	151	5	m	3455704	190576	Unknown, short duration
72	21	m	3461129	191567	Unknown, possible noise	152	6	m	3455528	190569	Unknown, short duration, related to 153
73	22	m	3461184	191533	Unknown, possible noise	153	29	m	3455445	190540	Pipeline, TGP Co. 26-in Gas (Seq. 3562)
74	110	mc	3462354	190792	Unknown, oil & gas debris						
75	19	mc	3460961	191284	Unknown, short duration						
76	27	m	3459708	191665	Unknown, short duration						
77	8	m	3460605	191106	Unknown, Cluster 5						
78	7	dc	3461919	190399	Unknown						
79	31	m	3459771	191407	Unknown, possible noise						
80	5	d	3460771	190822	Unknown, short duration						

1) Magnetic anomaly reference numbers are preceded by the letter M on the project drawings (i.e. 241 = M241).

2) Anomaly categories (m = monopole, d = dipole, c = complex).

3) Coordinates reference NAD83, Louisiana State Plane Coordinate System, South Zone, U.S. Survey Feet.

4) Possible noise in comment column suggests that the magnetometer anomaly detected may be related to sensing fluctuations in the magnetic background related to sea conditions and/or closeness of sensor to seabed and not related to the detection of a ferrous metal source



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LEGEND	
	POST DREDGE - OCTOBER 2009 SURVEY
	EXISTING PROFILE - AUGUST 2009 SURVEY
	DESIGN TEMPLATE
	DUNE FILL

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

AS-BUILT

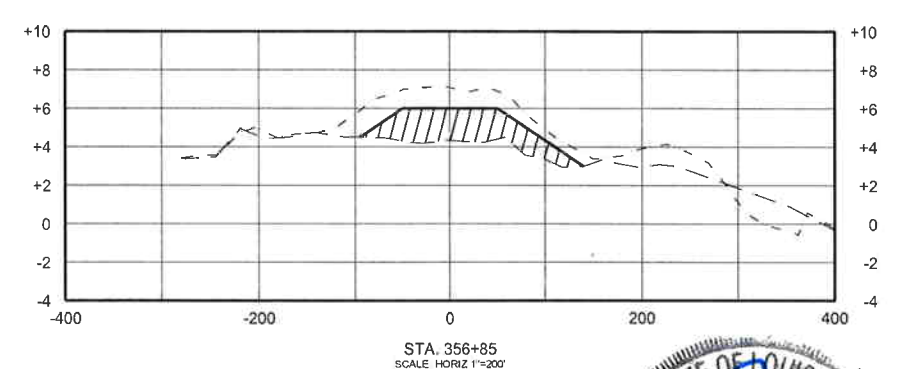
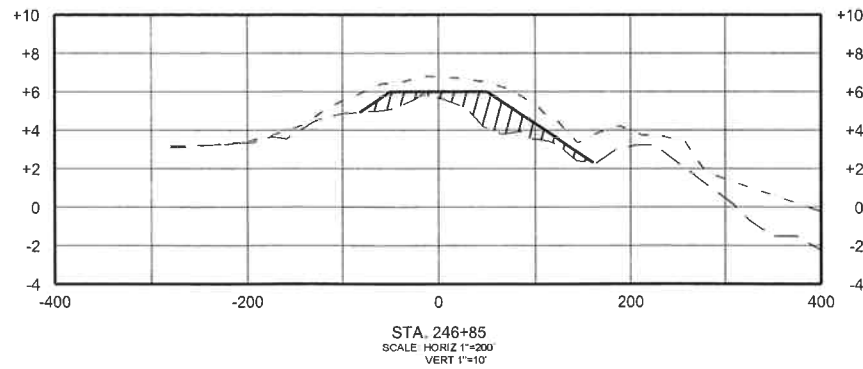
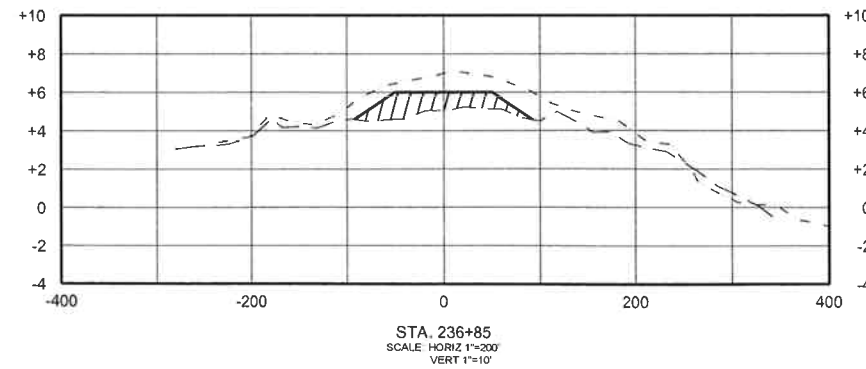
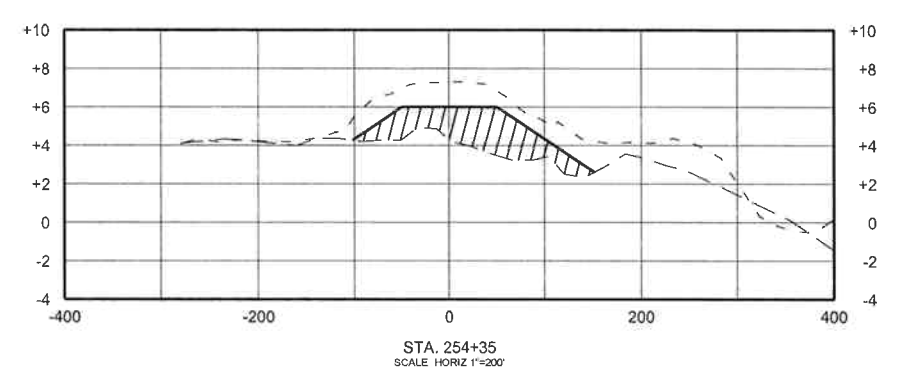
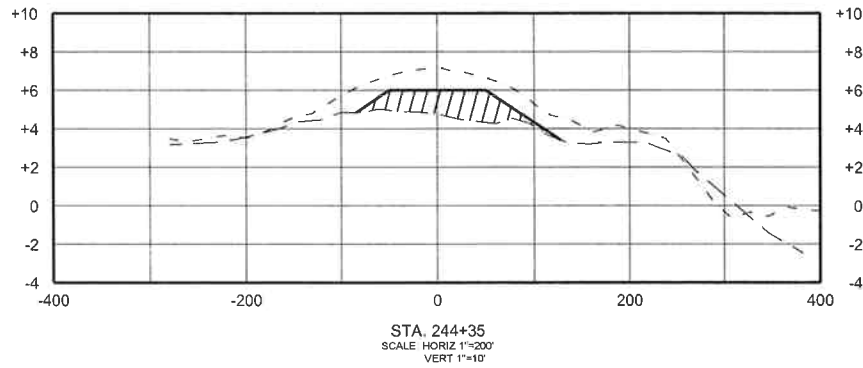
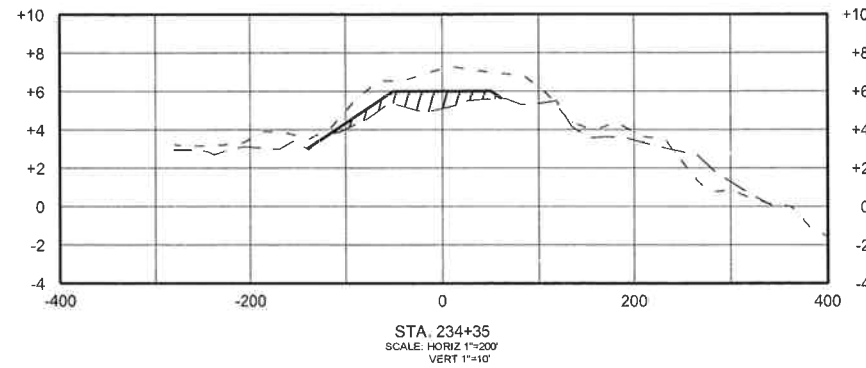
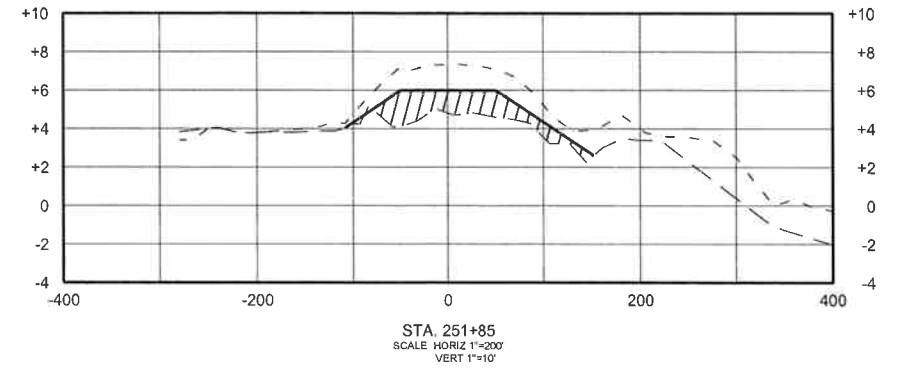
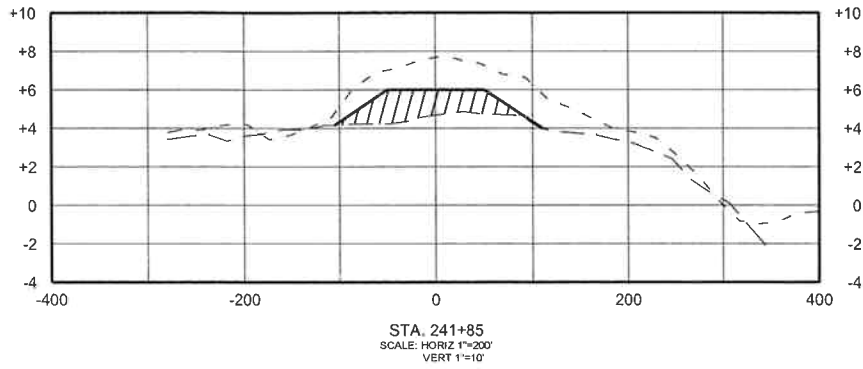
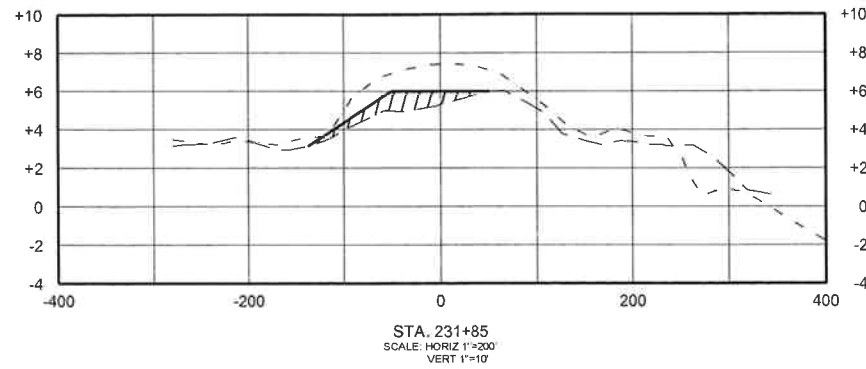
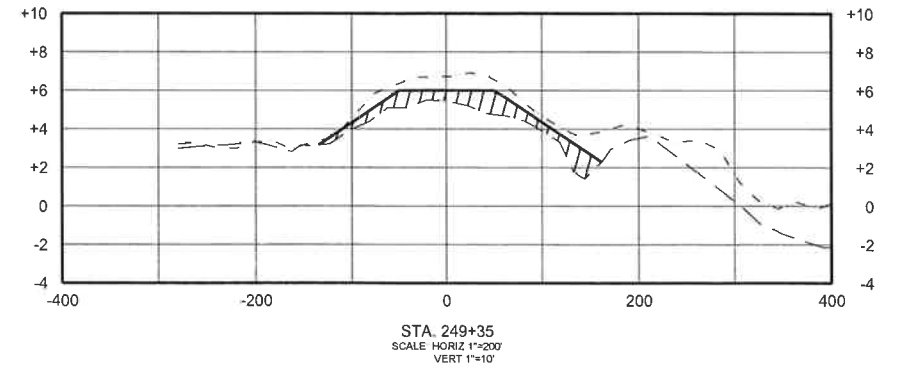
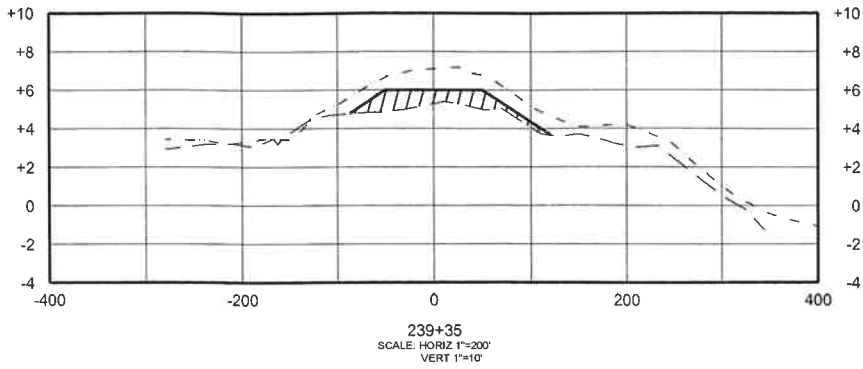
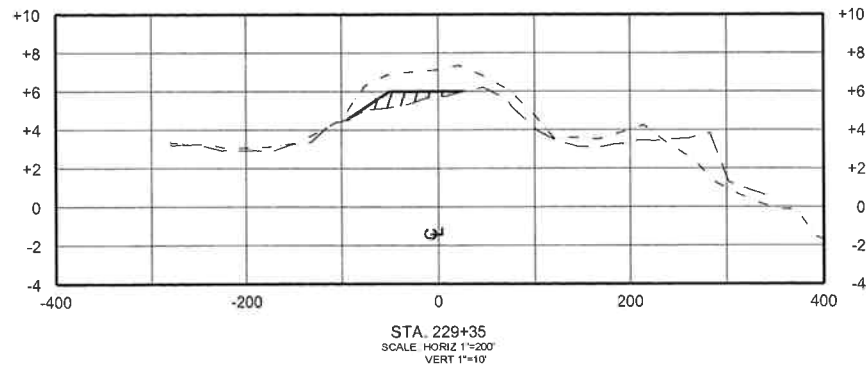
WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR





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LEGEND

- POST DREDGE - OCTOBER 2009 SURVEY
- - - EXISTING PROFILE - AUGUST 2009 SURVEY
— DESIGN TEMPLATE
-  DUNE FILL

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COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
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DRAWN BY: KSP

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WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

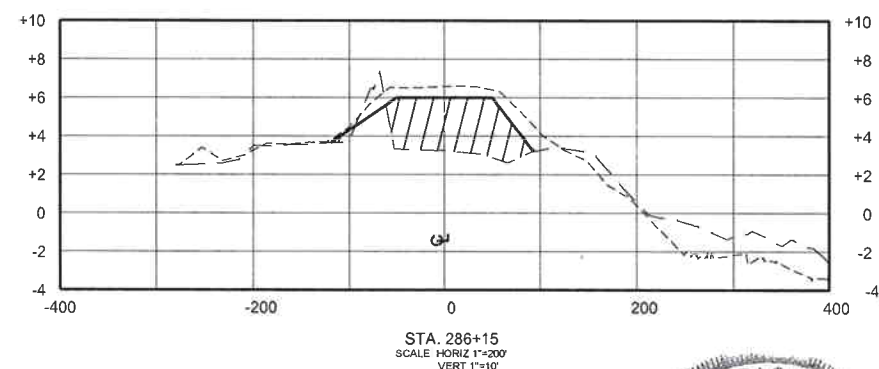
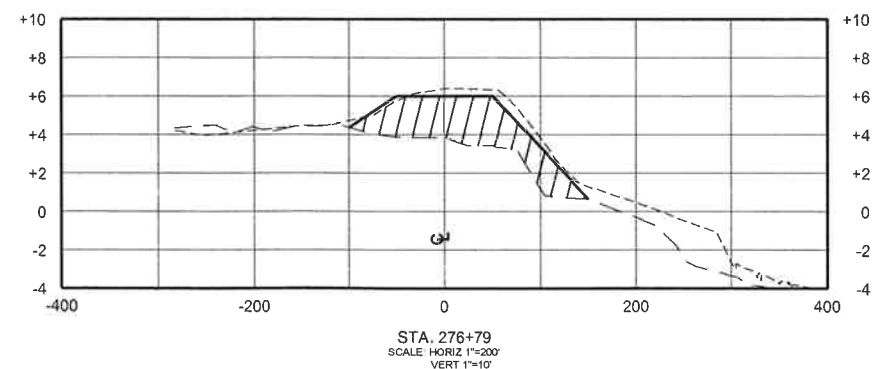
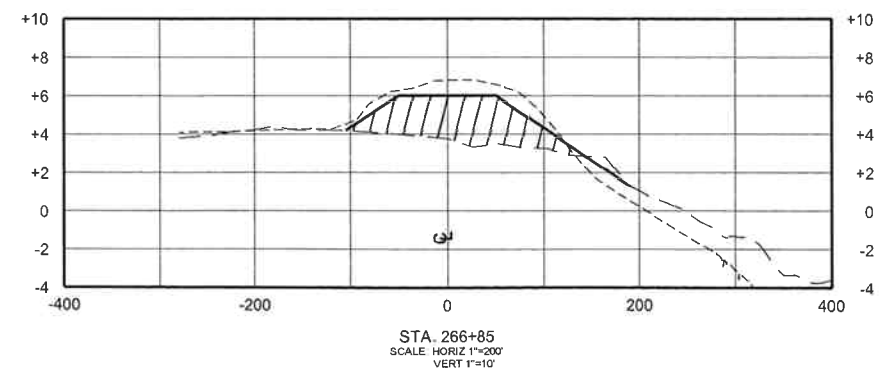
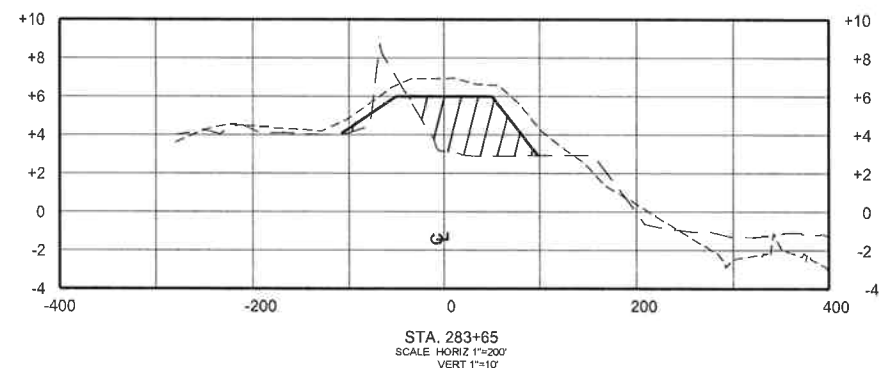
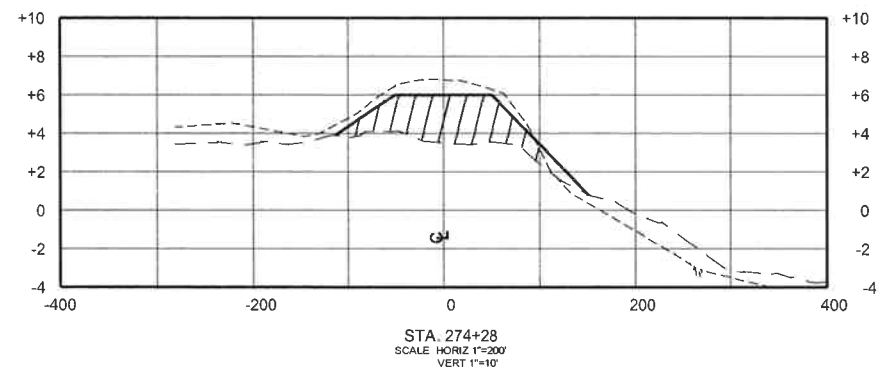
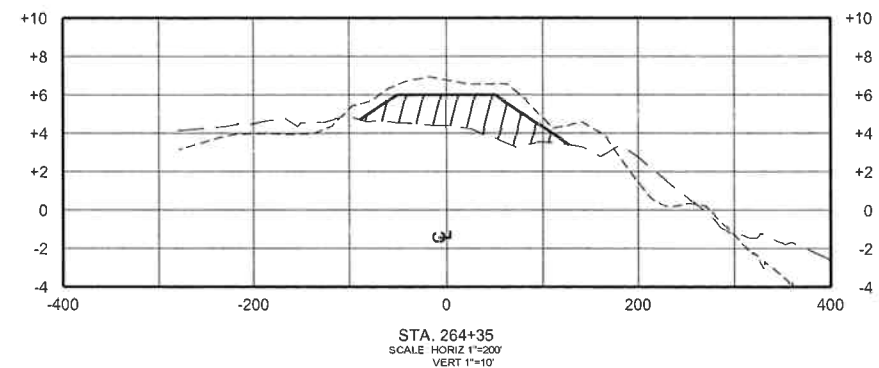
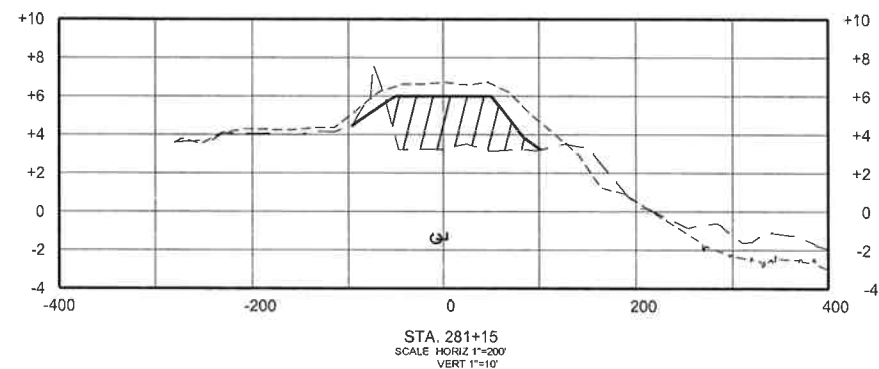
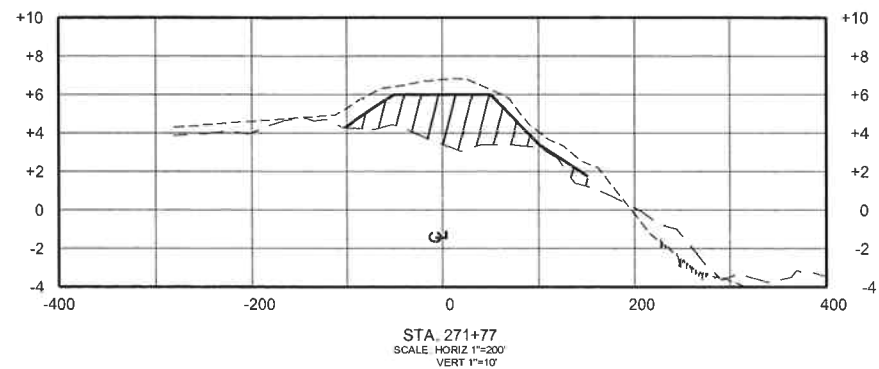
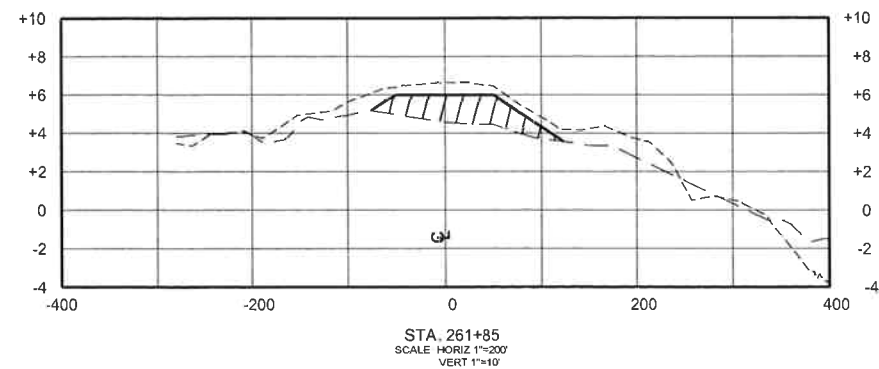
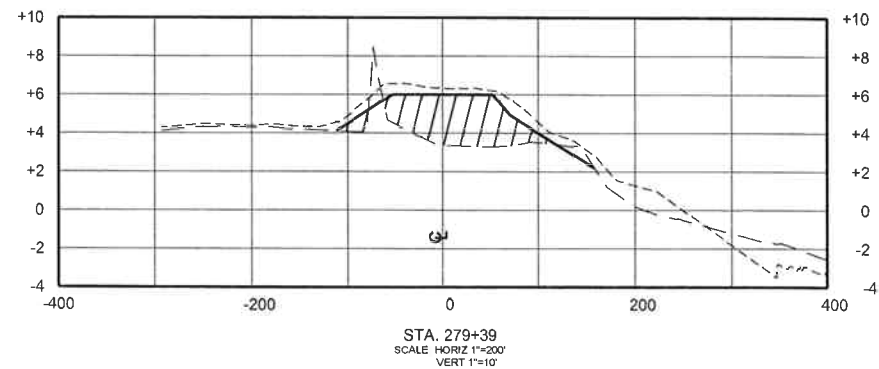
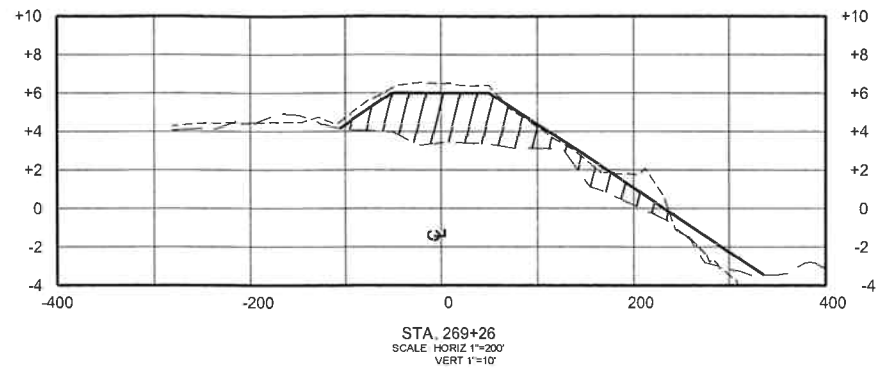
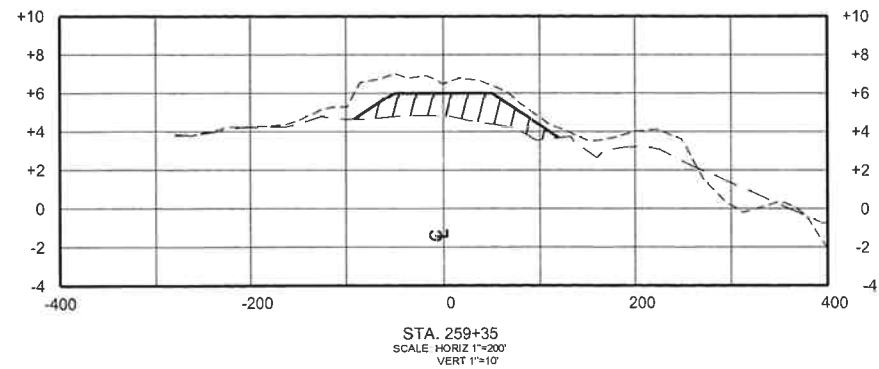
STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR



AS-BUILT



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LEGEND

	POST DREDGE - OCTOBER 2009 SURVEY
	EXISTING PROFILE - AUGUST 2009 SURVEY
	DESIGN TEMPLATE
	DUNE FILL

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

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WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

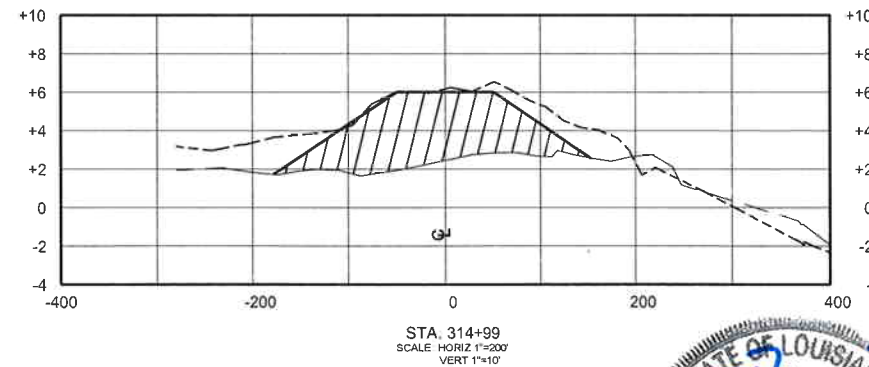
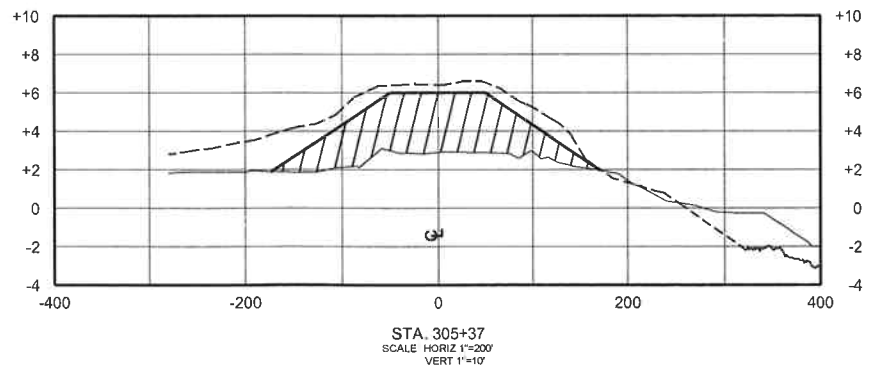
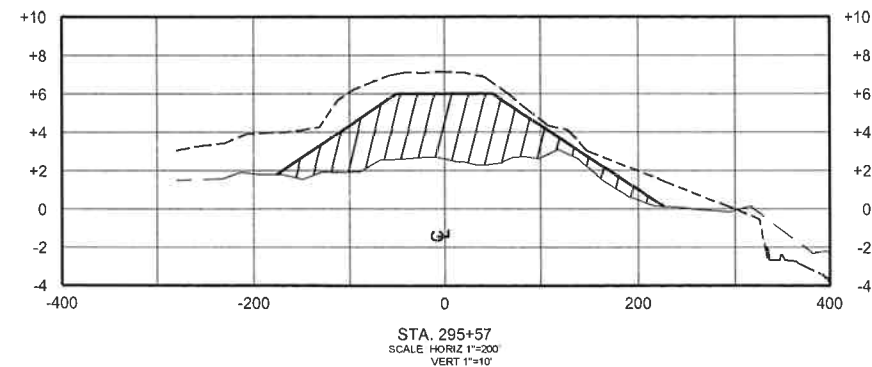
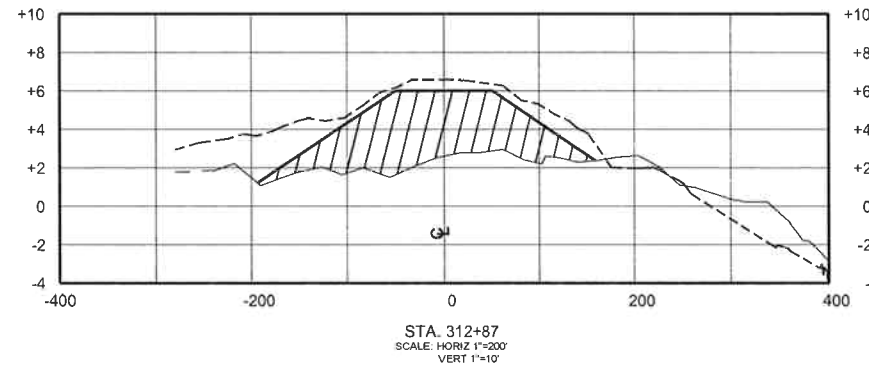
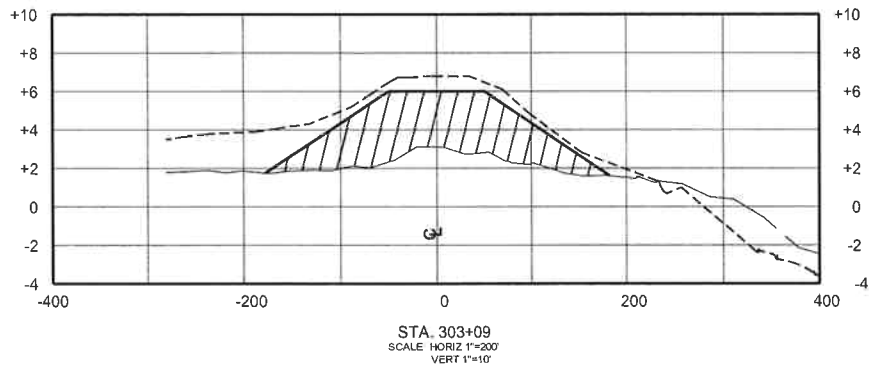
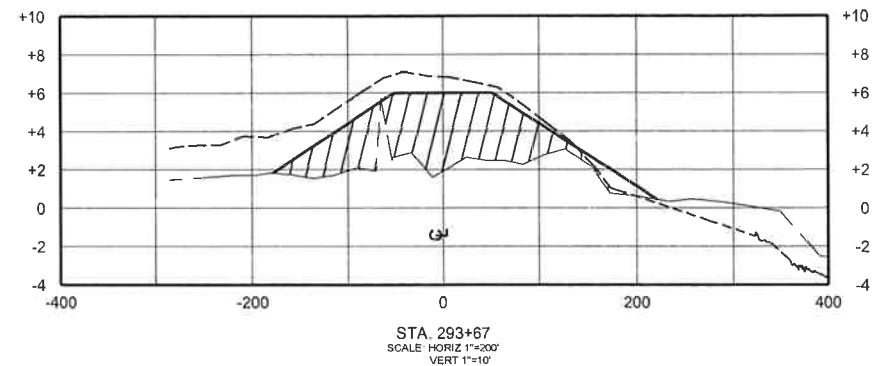
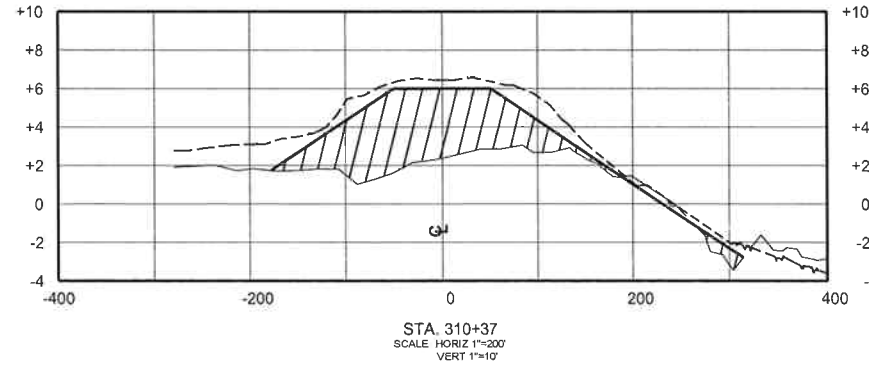
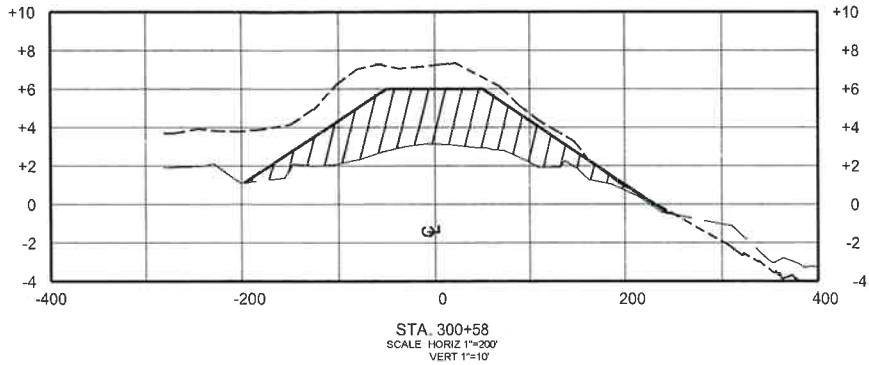
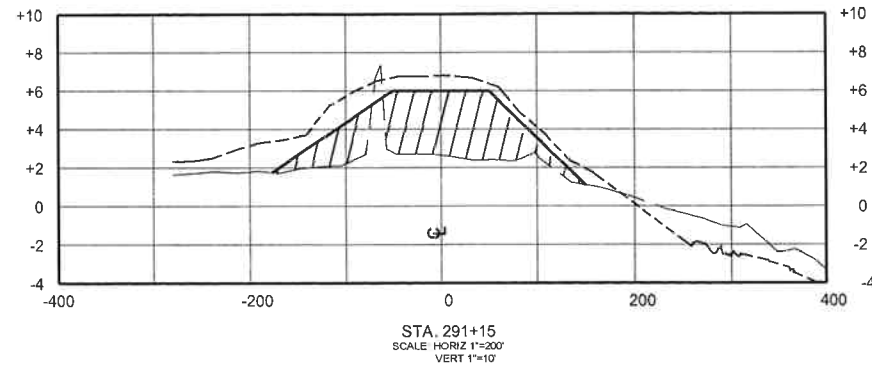
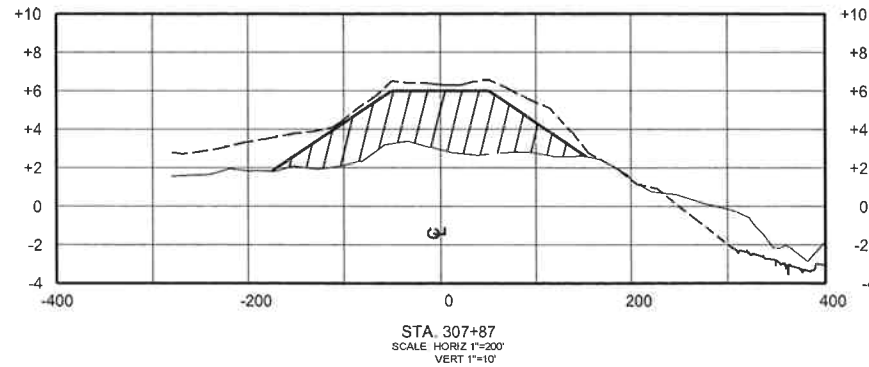
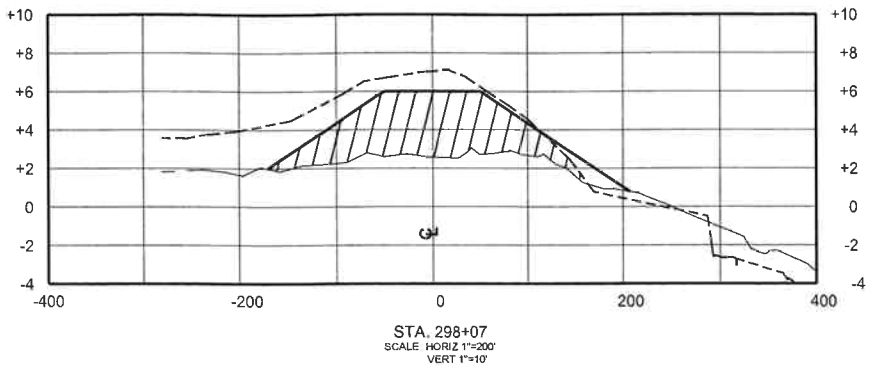
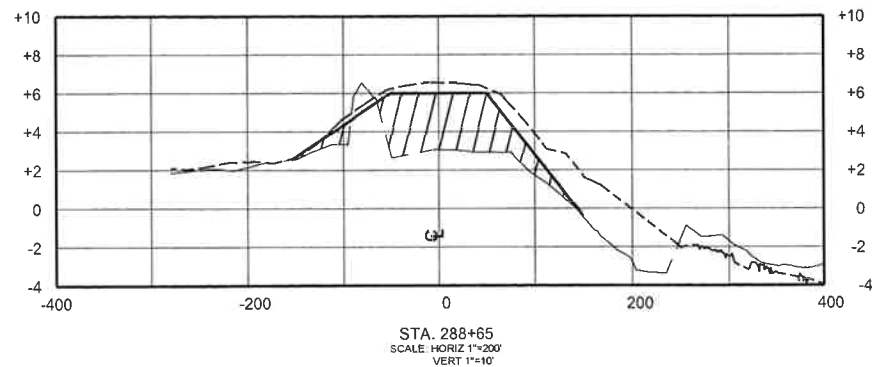
STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR



SHEET 15



NOTES:

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	EXISTING PROFILE - AUGUST 2009 SURVEY
	DESIGN TEMPLATE
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COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

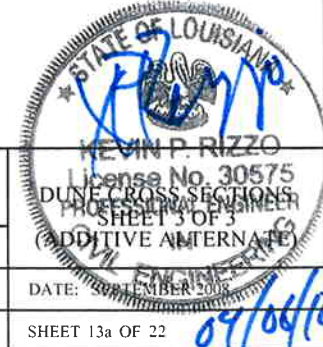
AS-BUILT

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

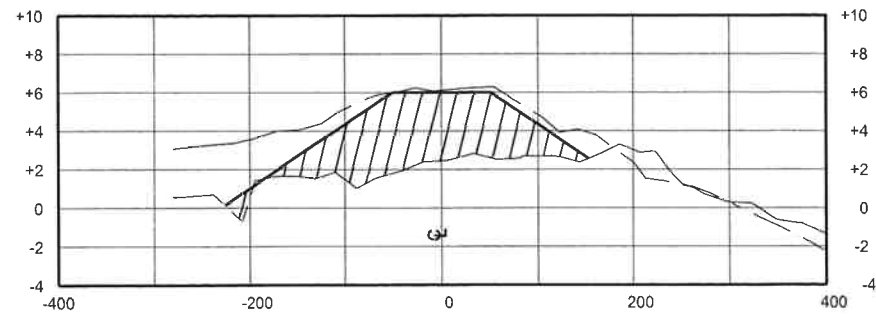
STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

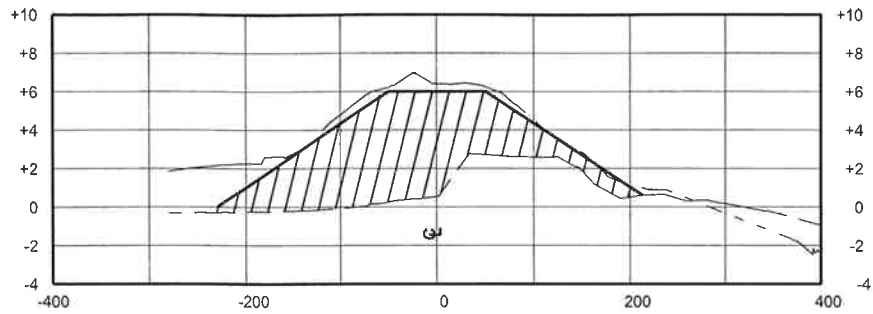
APPROVED BY: KPR



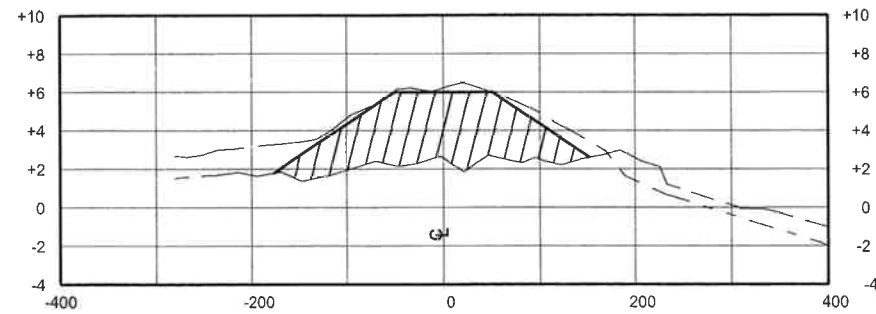
SHEET 13a OF 22



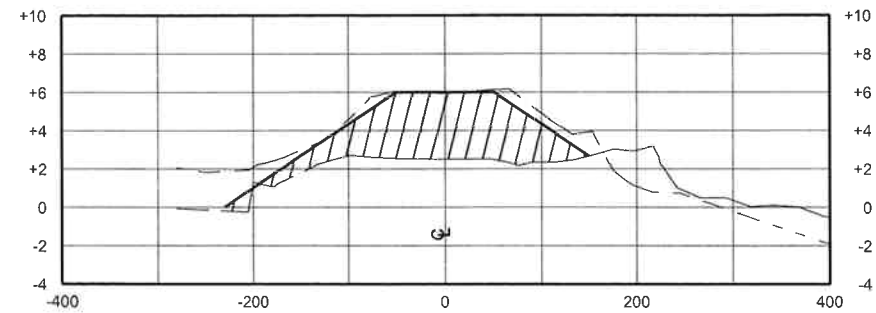
STA. 317+50
SCALE: HORIZ 1"=200'
VERT 1"=10'



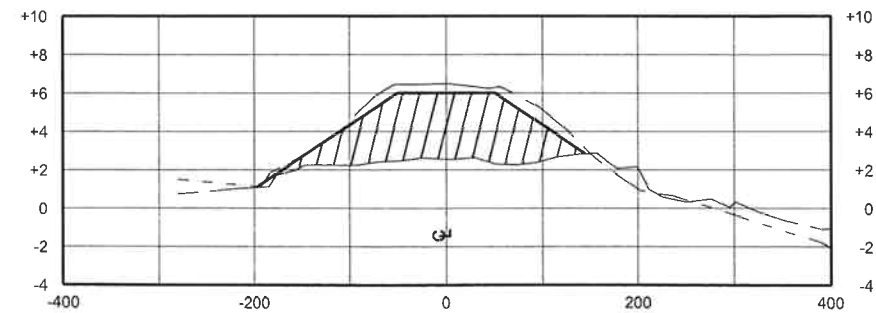
STA. 327+28
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 320+00
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 322+51
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 325+01
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:

- 1) MAXIMUM TOLERANCE FOR DUNE FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE.
- 2) THE DUNE SHALL BE SEEDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.

LEGEND	
	POST DREDGE - OCTOBER 2009 SURVEY
	EXISTING PROFILE - AUGUST 2009 SURVEY
	DESIGN TEMPLATE
	DUNE FILL

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

AS-BUILT

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

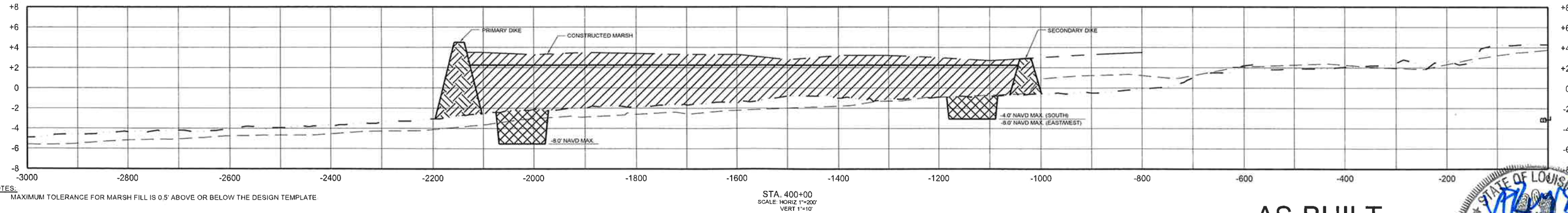
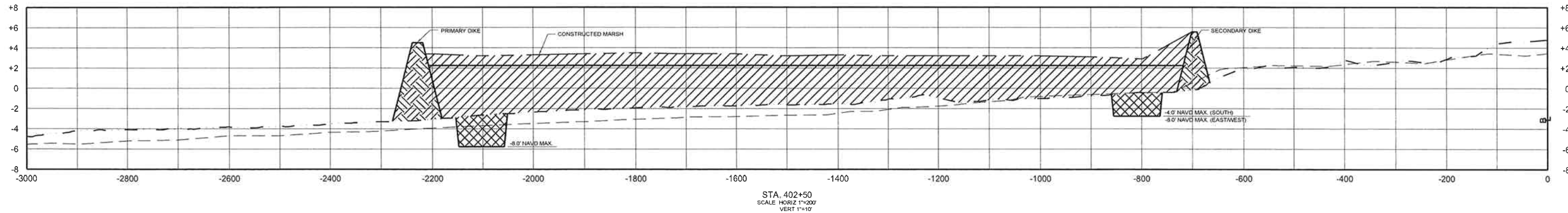
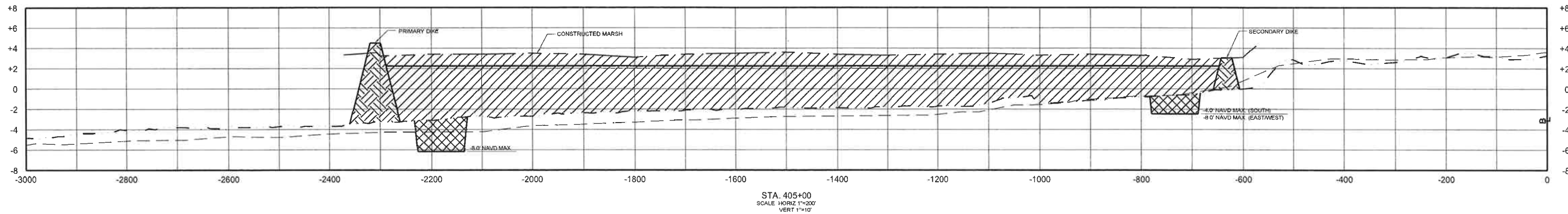
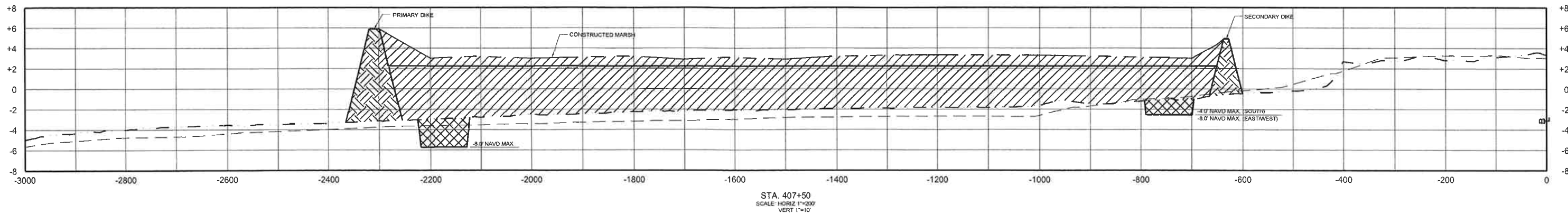
STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR



SHEET 136 OF 22



NOTES:
1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE

LEGEND	
	AFTER DREDGE - OCTOBER 2009 SURVEY
	EXISTING PROFILE - MARCH 2009 SURVEY
	EXISTING PROFILE - JUNE 2006 SURVEY
	DESIGN TEMPLATE
	MARSH FILL
	CONTAINMENT DIKE
	EXCAVATION FOR CONTAINMENT DIKE

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

AS-BUILT

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

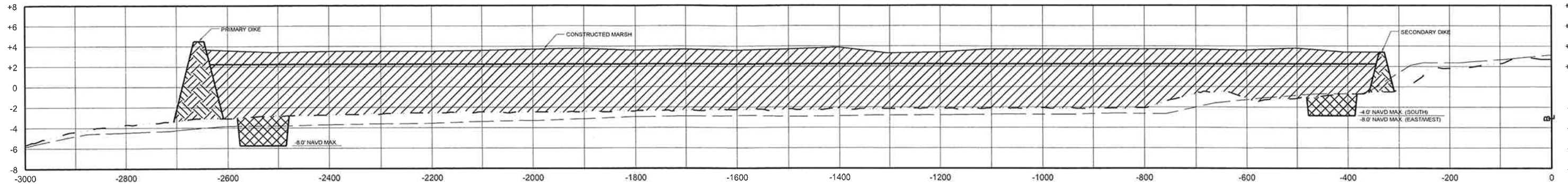
STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

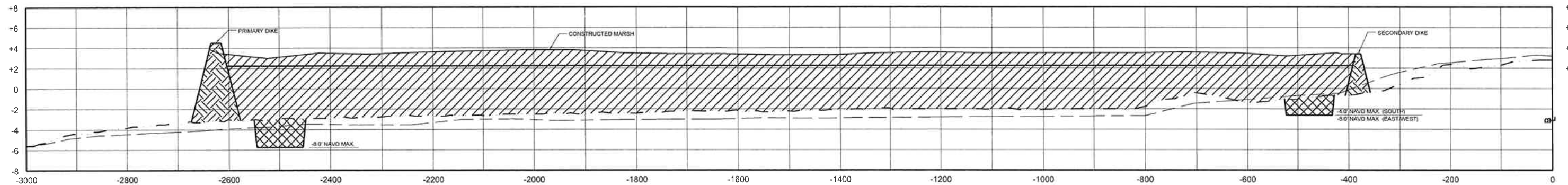
APPROVED BY: KPR



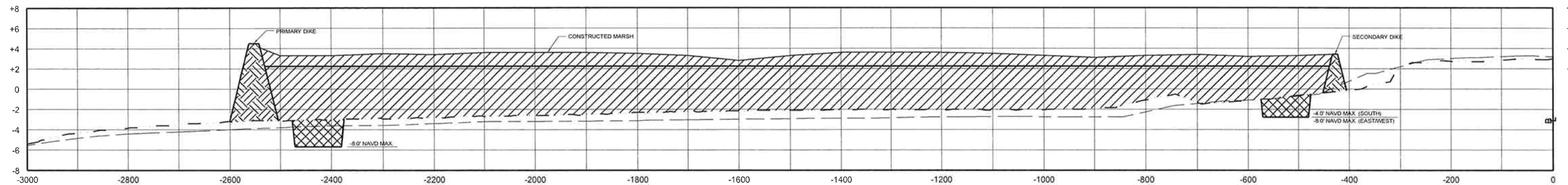
SHEET 14 OF 22



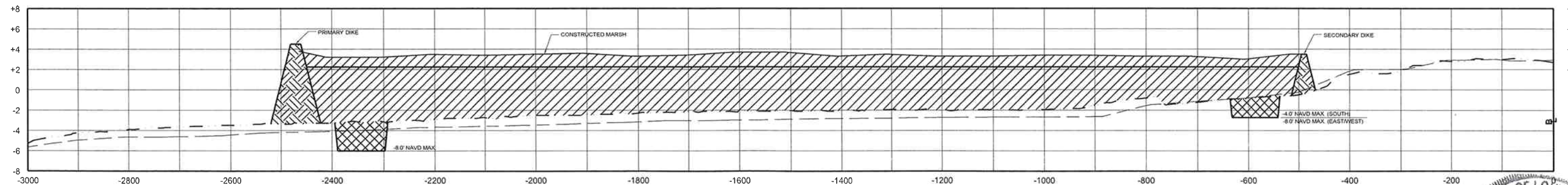
STA. 417+50
SCALE: HORIZ 1"=100'
VERT 1"=5'



STA. 415+00
SCALE: HORIZ 1"=100'
VERT 1"=5'



STA. 412+50
SCALE: HORIZ 1"=100'
VERT 1"=5'



STA. 410+00
SCALE: HORIZ 1"=100'
VERT 1"=5'

NOTES:
1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE.

LEGEND	
	AFTER DREDGE - OCTOBER 2009 SURVEY
	EXISTING PROFILE - MARCH 2009 SURVEY
	EXISTING PROFILE - JUNE 2006 SURVEY
	DESIGN TEMPLATE
	MARSH FILL
	CONTAINMENT DIKE
	EXCAVATION FOR CONTAINMENT DIKE

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

AS-BUILT

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

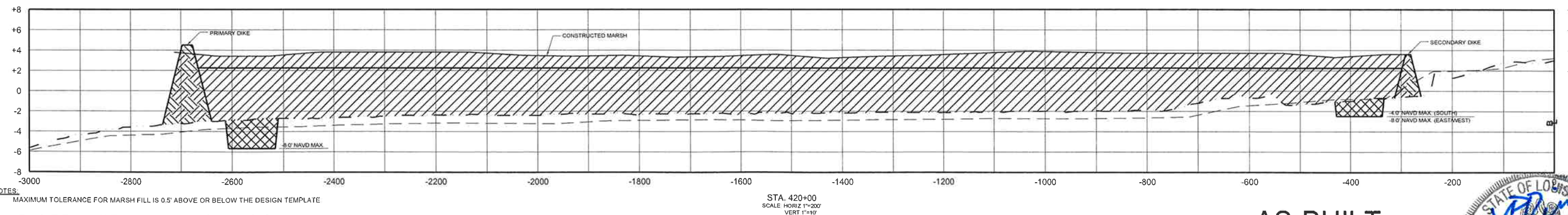
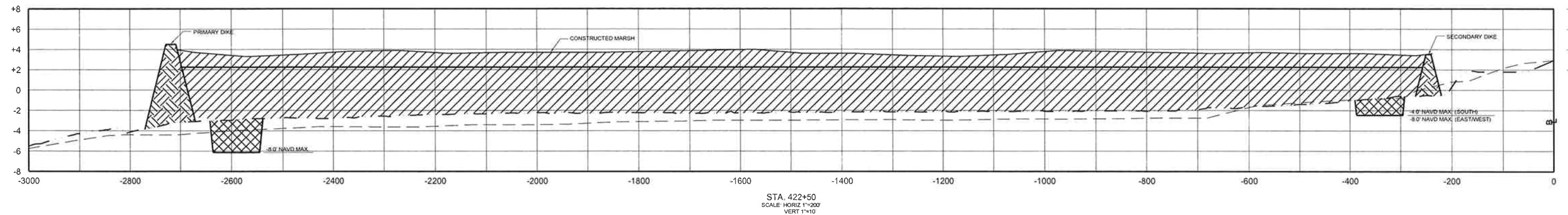
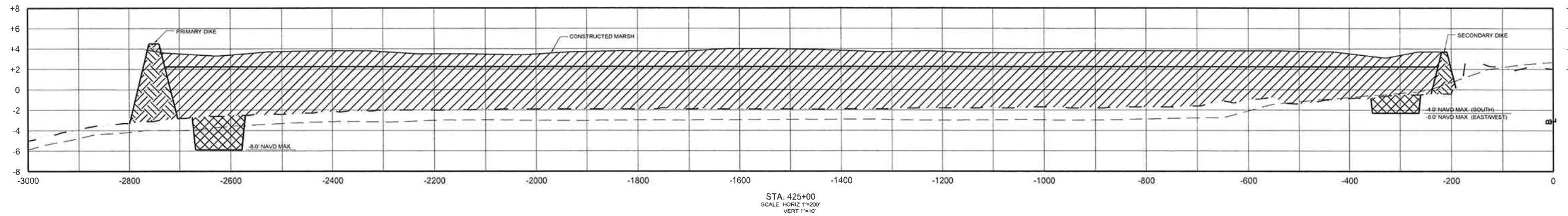
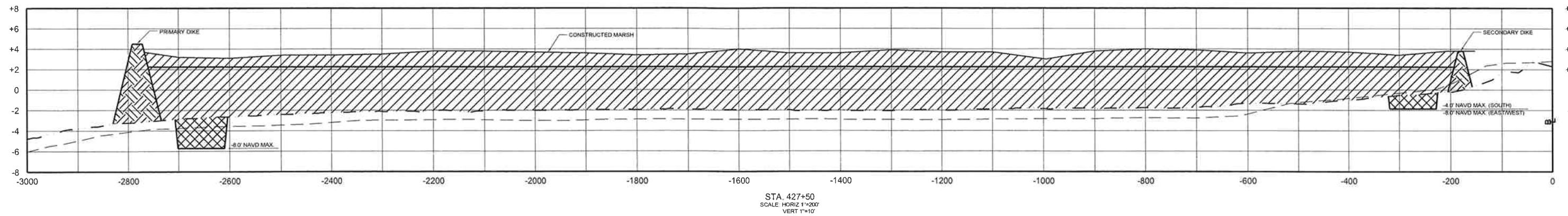
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR



DATE: 04/06/10

SHEET 15 OF 22



NOTES:
1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE

LEGEND	
	AFTER DREDGE - OCTOBER 2009 SURVEY
	EXISTING PROFILE - MARCH 2009 SURVEY
	EXISTING PROFILE - JUNE 2006 SURVEY
	DESIGN TEMPLATE
	MARSH FILL
	CONTAINMENT DIKE
	EXCAVATION FOR CONTAINMENT DIKE

1	2-2-10	AS-BUILT	KMB
REV	DATE	DESCRIPTION	BY



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

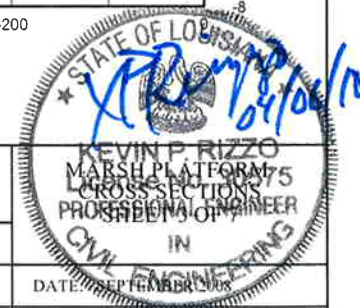
AS-BUILT

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

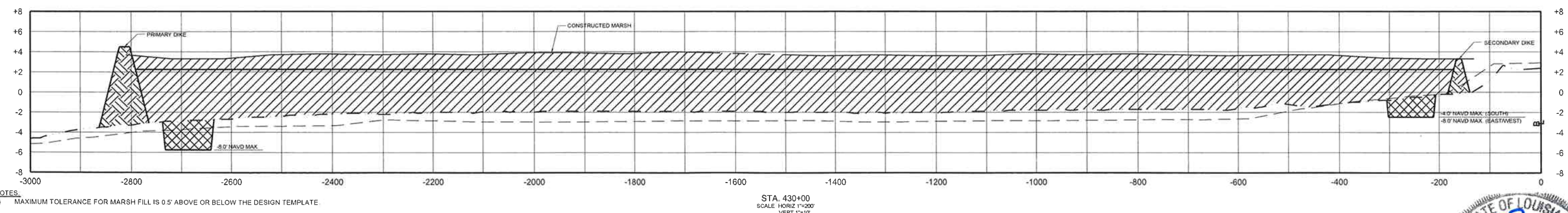
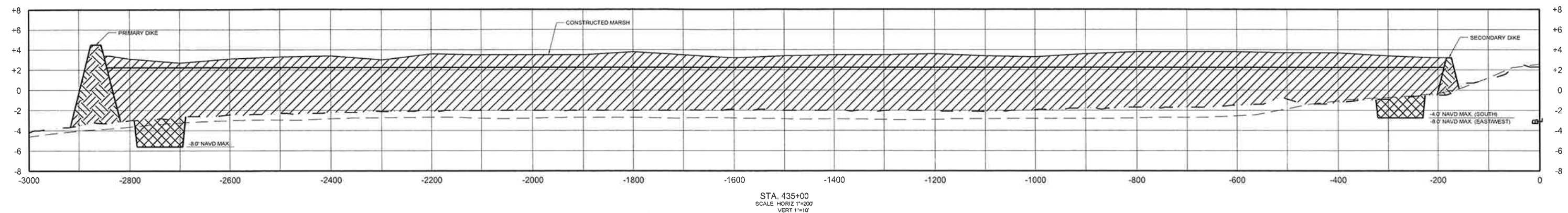
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR






DATE: SEPTEMBER 10, 2010

SHEET 16 OF 22



LEGEND

---	AFTER DREDGE - OCTOBER 2009 SURVEY
---	EXISTING PROFILE - MARCH 2009 SURVEY
---	EXISTING PROFILE - JUNE 2006 SURVEY
---	DESIGN TEMPLATE

		
MARSH FILL	CONTAINMENT DIKE	EXCAVATION FOR CONTAINMENT DIKE

1	2-2-10	AS-BUILT	KMB
REV.	DATE	DESCRIPTION	BY



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

AS-BUILT

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

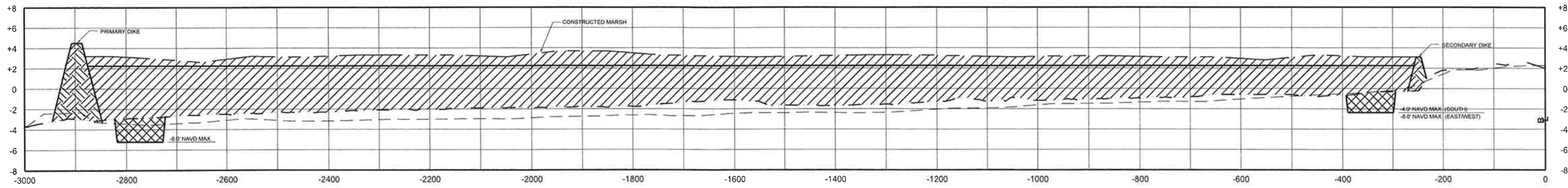
STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

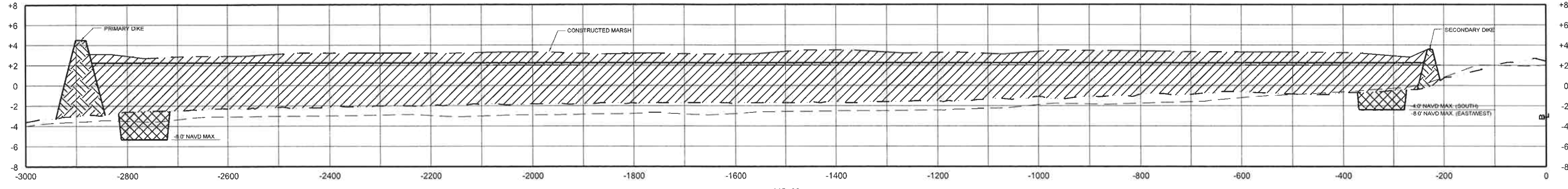
APPROVED BY: KPR



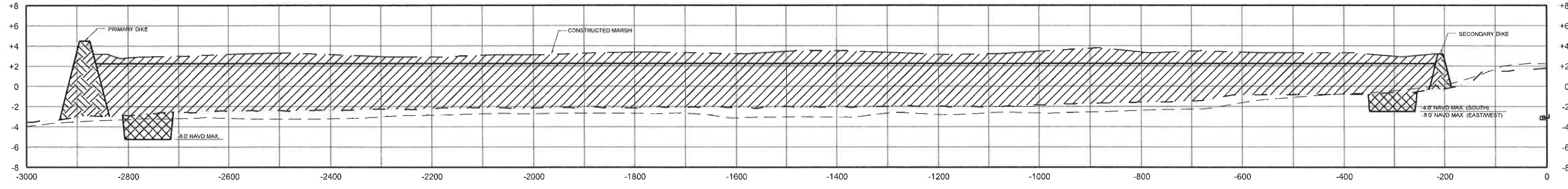
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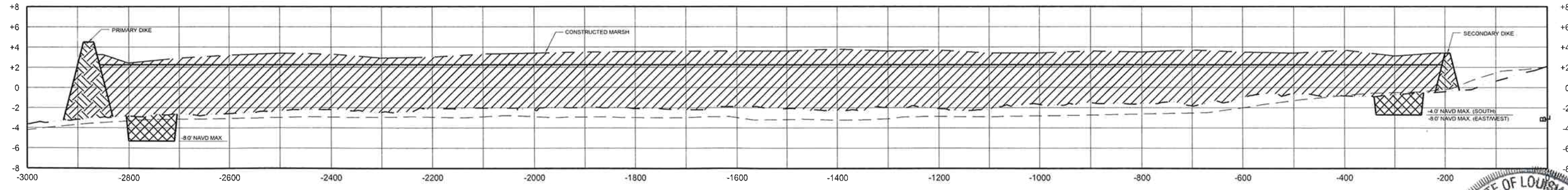
STA. 447+50
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 445+00
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 442+50
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 440+00
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:
1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE

LEGEND

---	AFTER DREDGE - OCTOBER 2009 SURVEY
---	EXISTING PROFILE - MARCH 2009 SURVEY
---	EXISTING PROFILE - JUNE 2006 SURVEY
---	DESIGN TEMPLATE

MARSH FILL	CONTAINMENT DIKE	EXCAVATION FOR CONTAINMENT DIKE

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

TBS T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
(985) 868-1050 www.tbsmith.com

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

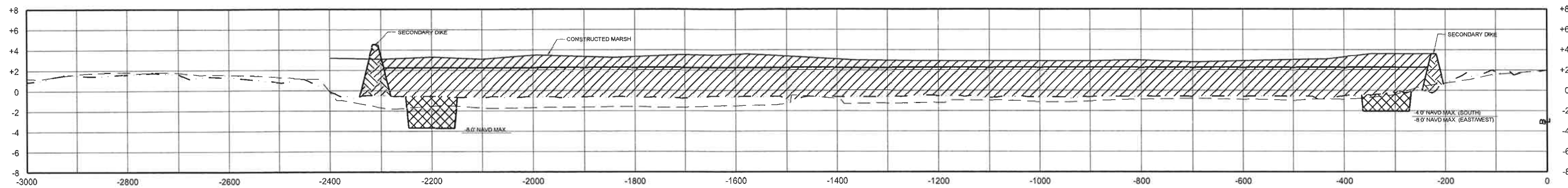
STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

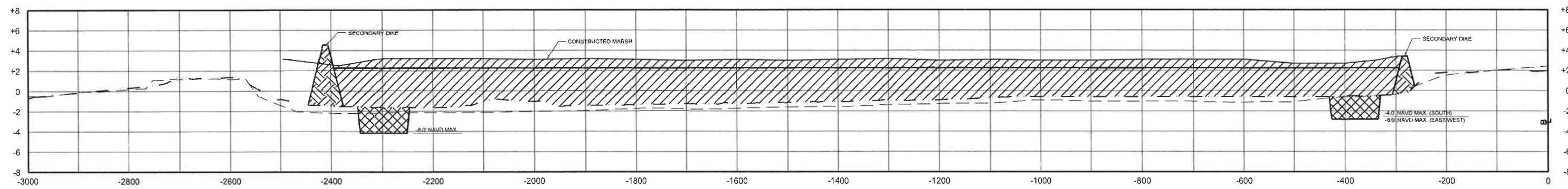
STATE OF LOUISIANA
KEVIN P. RIZZO
MARSH PLATFORMS
LIGRESS SECTIONS
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

DATE: SEP 16/10

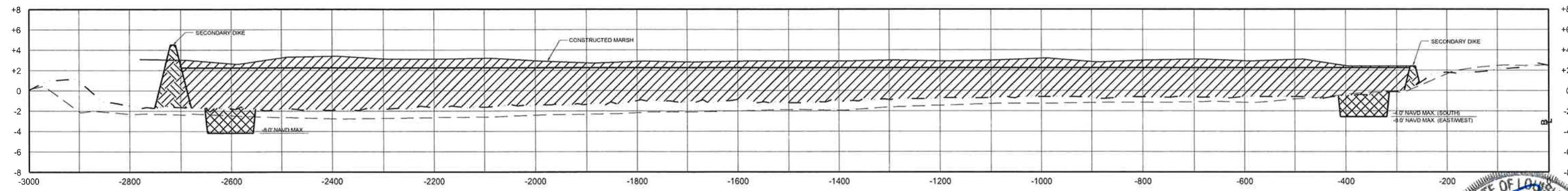
SHEET 18 OF 22



STA. 455+00
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 452+50
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 450+00
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:

- 1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE.

LEGEND

AFTER DREDGE - OCTOBER 2009 SURVEY
 EXISTING PROFILE - MARCH 2009 SURVEY
 EXISTING PROFILE - JUNE 2006 SURVEY
 DESIGN TEMPLATE

MARSH FILL
 CONTAINMENT DIKE
 EXCAVATION FOR CONTAINMENT DIKE

REV.	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

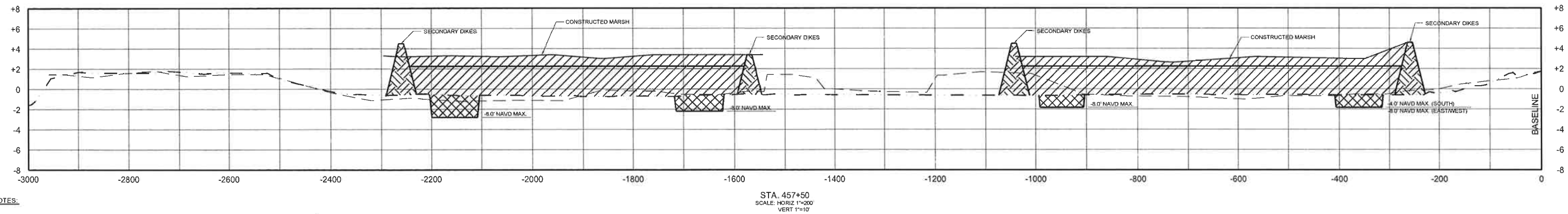
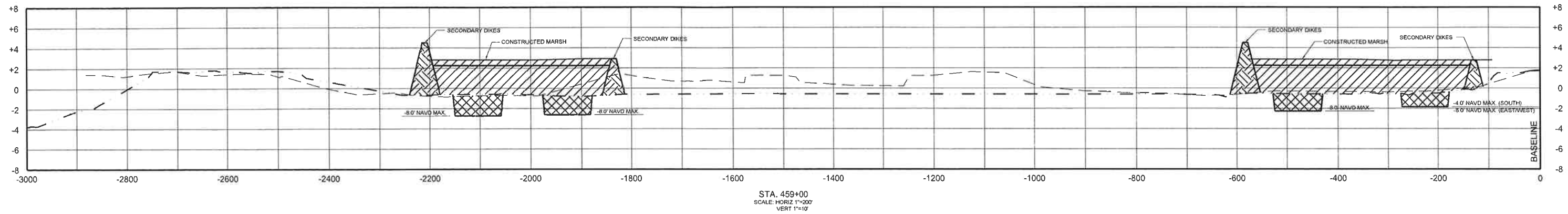
MARSH PLATFORM
CROSS SECTIONS
SHEET 6 OF 7

DATE: SEPTEMBER 2008

SHEET 19 OF 22

AS-BUILT





NOTES:

- 1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE



AS-BUILT

LEGEND	
	AFTER DREDGE - OCTOBER 2009 SURVEY
	EXISTING PROFILE - MARCH 2009 SURVEY
	EXISTING PROFILE - JUNE 2006 SURVEY
	DESIGN TEMPLATE
	MARSH FILL
	CONTAINMENT DIKE
	EXCAVATION FOR CONTAINMENT DIKE

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

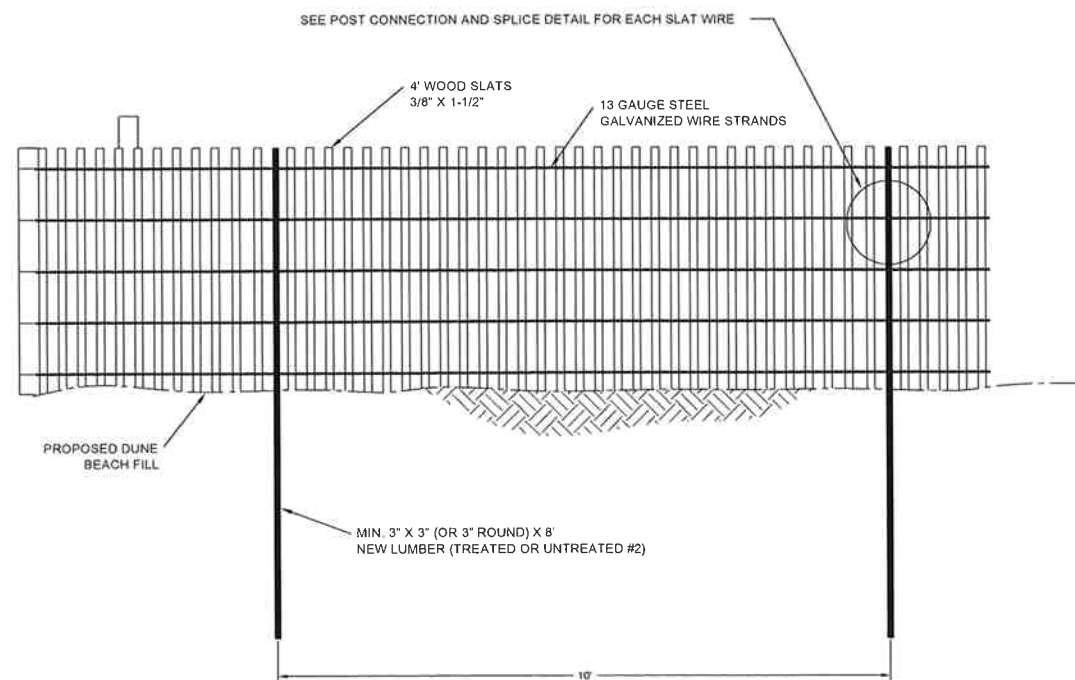
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

MARSH PLATFORM
CROSS SECTIONS
SHEET 7 OF 7

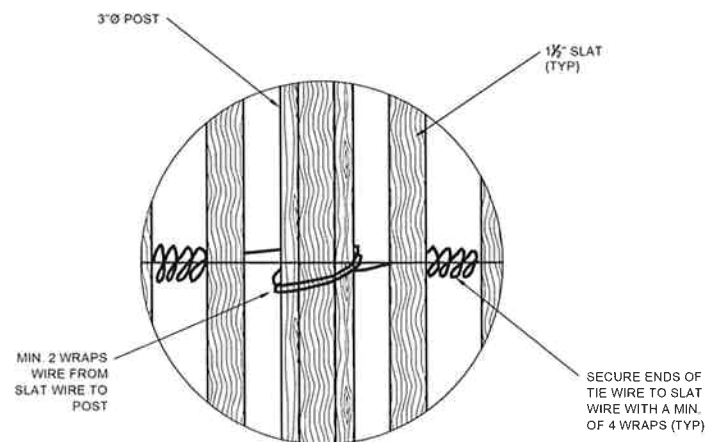
DATE: SEPTEMBER 2008

SHEET 20 OF 22



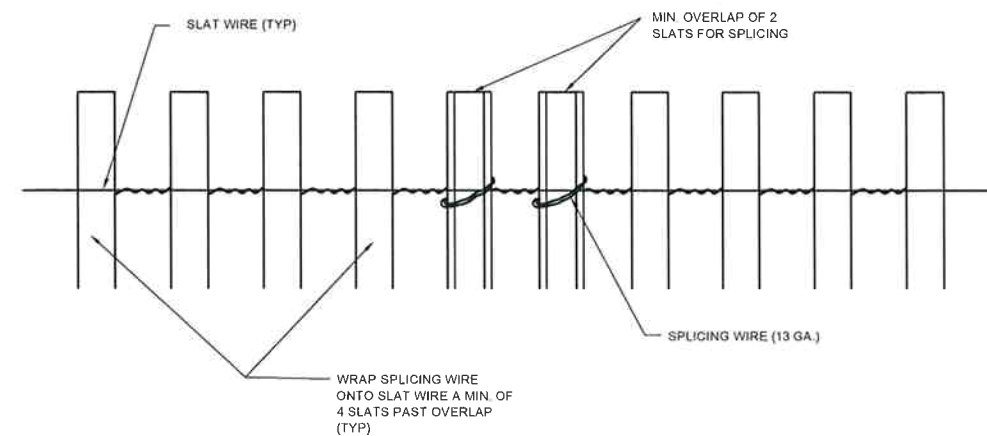
FENCING DIMENSIONS

N.T.S.



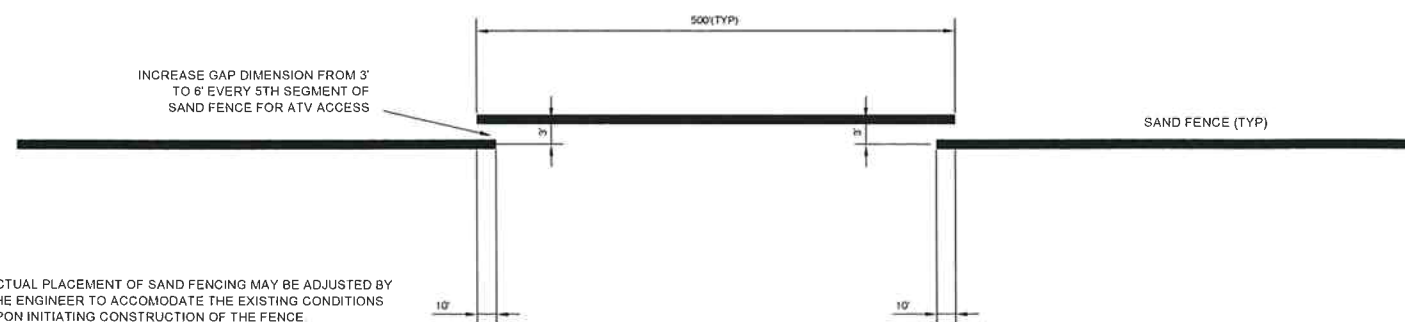
POST CONNECTION

N.T.S.



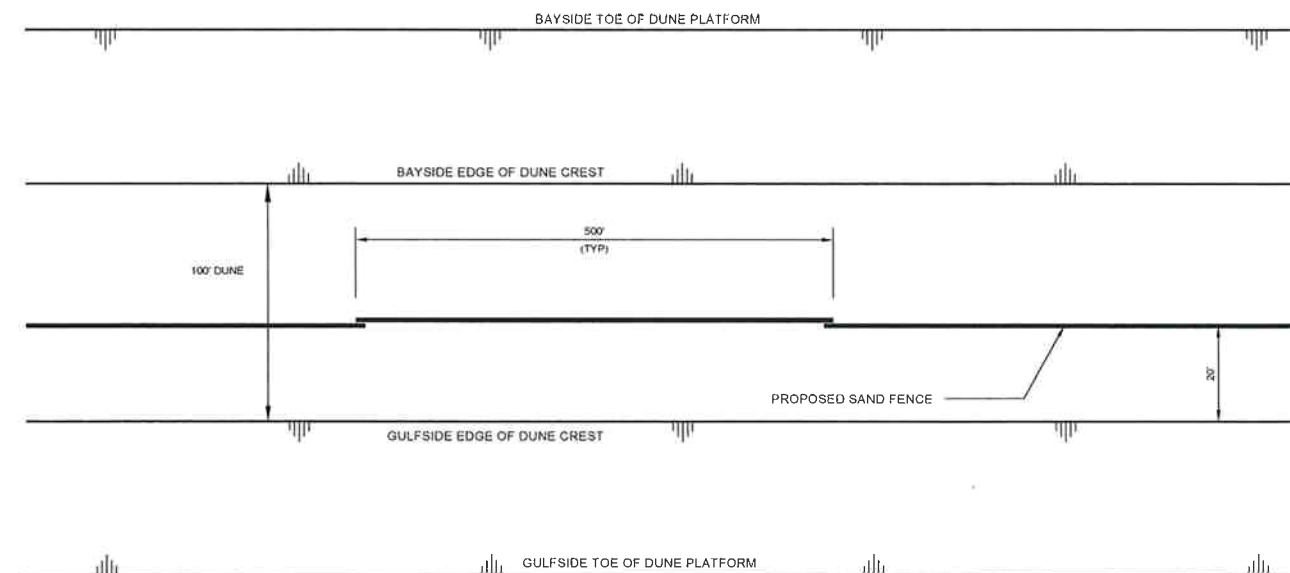
SPLICE DETAIL

N.T.S.



GAPPING DIMENSIONS

N.T.S.



AS-BUILT

SAND FENCE LAYOUT

N.T.S.

- NOTES:**
- 1) ACTUAL PLACEMENT OF SAND FENCING MAY BE ADJUSTED BY THE ENGINEER TO ACCOMMODATE THE EXISTING CONDITIONS UPON INITIATING CONSTRUCTION OF THE FENCE.
 - 2) THE DISTANCE FROM THE SAND FENCE TO THE EDGE OF DUNE CREST ON THE GULF SIDE IS 20'.

REV	DATE	DESCRIPTION	BY



LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP

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WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

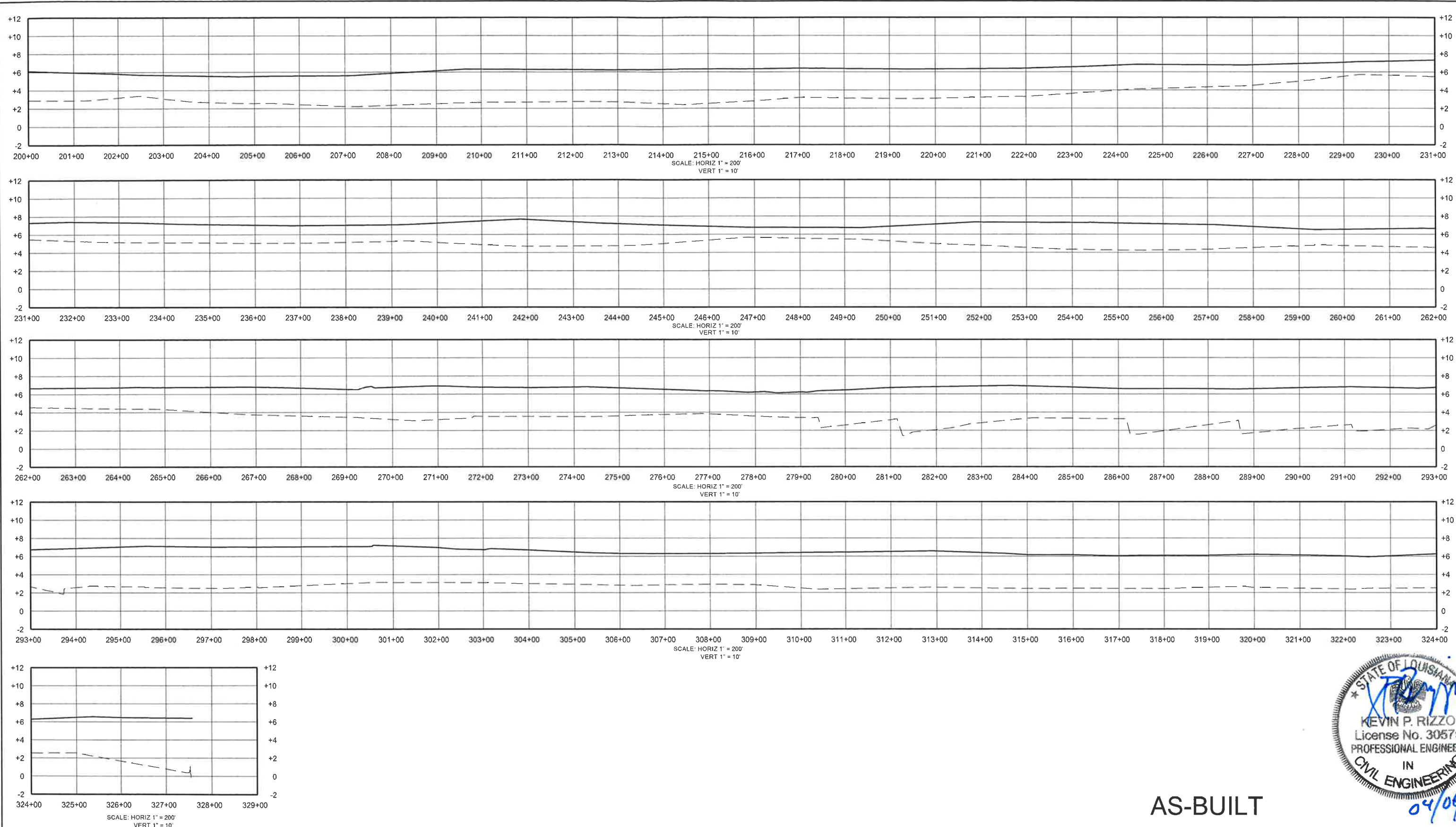
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

SAND FENCE DETAILS
(ADDITIVE ALTERNATE)

DATE: SEPTEMBER 2008

SHEET 21 OF 22



AS-BUILT

LEGEND	
	POST DREDGE - OCTOBER 2009 SURVEY
	EXISTING PROFILE - AUGUST 2009 SURVEY

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB



T. BAKER SMITH
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(985) 868-1050 www.tbsmith.com

LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802		WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)	DUNE PROFILE SHEET 1 OF 1
		STATE PROJECT NUMBER: 2511-05-09	
DRAWN BY: KSP		DESIGNED BY: KPR	DATE: SEPTEMBER 2008
		APPROVED BY: KPR	SHEET 22a OF 22